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Puttier

1911

Panama

3694 - 5332

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pages 2998-3005.

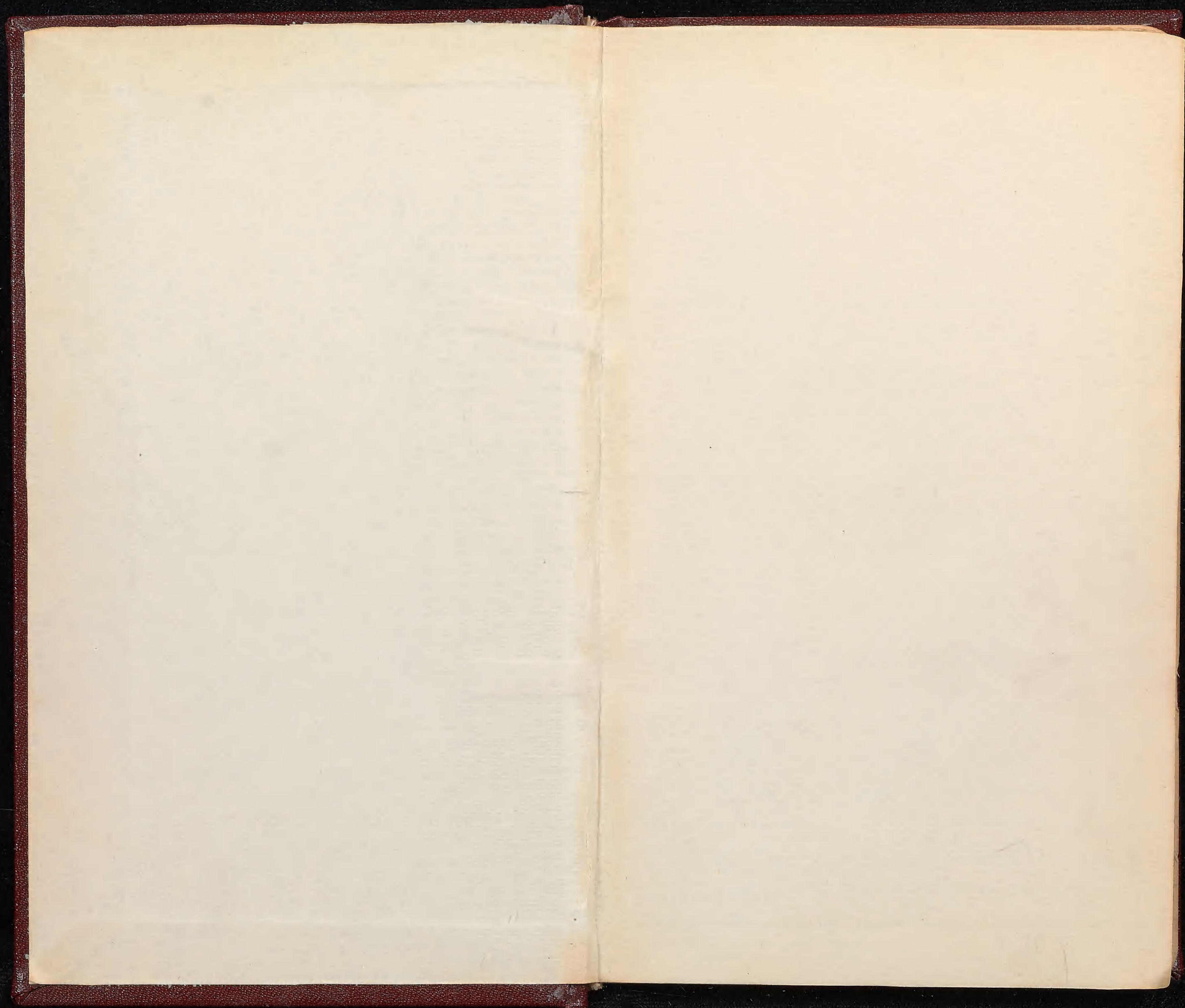
H. Patten
Costa Rica

-1911-

Panama C.

2181-3693

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#21

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mod

Jan. 2^d 1911.

2181. *Eclipta alba* (L.) Hassk.

Compositae. Between Corozal & Panama, in ditches. Fl. radiate, white with yellow center.

2182. *Tuirena umbellata* Rottb.

Cyperaceae Between Corozal & Panama, along ditches.

2183. *Cyperus ~~flavescens~~ Kunth*

Cyperaceae Between Corozal & Panama, in ditches.

2184. *Echinochloa colonum* Link.

Graminae Between Corozal and Panama, in waste places

2185. *Syntherisma sanguinalis* Dulac.

Graminae Between Corozal and Panama, in waste places.

2186

Alroostichae Between Corozal and Panama, in mangrove-swamp.

2187. *Cyperus ferox* L. G. Rich.

Cyperaceae Between Corozal and Panama, in mangrove swamp.

2188. *Boerhaavia viscosa* Lag. & Rodr.

Nyctagynaceae Between Corozal and Panama, along R.R. Inflor. viscose, fl. deep purple, rather large. In stray plants, 40-60 cm. high.

2189. *Spilanthes*

Compositae

Jan. 2^d 1911.

Between Corozal and Panama, in waste places. A weed, 40-60 cm. high.

2190. *Momordica charantia* L

Cucurbitaceae

Culebra, in pastures and waste places. Fl. cuplike. Fr. fusiform, fire-red.

2191. *Mikania*

Compositae

Culebra, in bushes on edge of landslide. Creeping. Fl. white.

2192. *Hirtella americana* Aubl.

Rosaceae

Jan. 3^d, 1911.

Between Miraflores and Corozal, in bushes. Low shrub.

2193. *Piper hispidum* Sw.

Piperaceae

Between Miraflores and Corozal, in bushes. Creeper or shrub, \pm 2 m. high.

2194. *Bradburya Plumieri* (Benth.)

Papilionatae

Between Miraflores and Corozal, trailing on the soil or on bushes.

2195. *Pasiflora Seemannii* Griseb.

Pasifloraceae

Between Miraflores and Corozal, above tunnel. Climbing on bushes. Before anthesis, the calyx forms an air-tight globe.

2196. *Lasiacis Swartziana* Hitchc.

Graminae

Between Miraflores and Corozal. Divaricate, long stemmed grass, climbing on bushes.

2197. *Erechtites hieracifolia* (L.) Raf. Compositae

2198. *Mimosa casta* L. Mimosaceae

2199. *Tertia Haenkeana* DC. Rubiaceae

2200. *Helleborus* Musaceae

2201. Compositae

2202. *Bauhinia (Pauletia)*

Benesalpinziaceae Between Miraflores and Corozal, in waste places. Small, thorny tree. 2 m. high and divaricate. Fl. green.

2203. *Justicia carthagenensis* L.

Acanthaceae

Between Miraflores and Corozal, along R.R., a single plant. Fl. purple or violet, with white scalariform design inside - Fr. 4-merous

2204. *Nymphaea*

Nymphaeaceae

Between Miraflores and Corozal, in ditches.

Jan. 3^d, 1911.

Between Miraflores and Corozal, in waste places along road.

Between Miraflores and Corozal, climbing on bushes: very spiny.

Between Miraflores and Corozal in bushes. Small tree, 2-3 m. high.

Fl. yellow turning to purplish brown. Fr. red (?).

Between Miraflores and Corozal, in bushes. Inflor. pale yellow.

Between Miraflores and Corozal: frutex in bushes.

2205. *Eupatorium odoratum* L.

Compositae

Jan. 3^d 1911

Corozal, everywhere in waste places. One of the commonest species of the genus

2206. *Myriophyllum*?

Near Corozal, in water ditches. gregarious

2207.

Compositae

Corozal, common in waste places and along R.R. Fl. pink.

2208. *Urena sinuata* L.

Malvaceae

Corozal, along railroad, apparently rare. Fl. pink.

2209

Corozal, on bushes in low, swampy ground. Fl. golden yellow. Very sticky.

2210. *Dicranella Hermierii* Bouch.

Musci

Between Miraflores and Corozal, abundant on steep R.R. talus.

2211. *Ficus glaucescens* Liebm.

Moraceae

Jan. 4th 1911.

Around Culebra, a large tree. Fig green, flowers pink. Apparently the latex is quite watery or absent

2212. *Chaetocalyx latishqua*

Papilionatae

Around Culebra, trailing in grass. Fl. yellow.

2213. *Borreria spinosa* (L.) C. & S.

Rubiaceae

Jan. 4th 1911.

Around Culebra, in pastures and along roads. Fl. white.

2214. *Pyetnaeria carthagenensis* Jacq.

Sterculiaceae

Around Culebra, in bushes, trailing and thorny.

2215. *Browallia demissa* L.

Solanaceae

Around Culebra, in bushes and waste places. Fl. purplish blue

2216. *Phyllanthus acuminatus* Vahl.

Euphorbiaceae

Around Culebra, in pastures. Small tree. Fl. small, greenish.

2217. *Justicia pectoralis* Jacq.

Acanthaceae

Around Culebra, in pastures and bushes. Fl. pink.

2218. *Cissampelos pereira* L.

Menispermaceae

Around Culebra. Same as n°

2219. *Sida rhombifolia* L.

Malvaceae

Around Culebra, in bushes. A bushy, divaricate shrub, about 1 m. high.

2220. *Prestonia macrocarpa* Kunz. Apocynaceae

Around Culebra, climbing on bushes. No latex. One flower at a time. Throat yellow, torulose, corolla lobes white, pink tinged.

Jan. 4, 1911.

2221. *Siphocampylus* Campanulaceae Around Bulebra, in cool places along creeks. Fl. pink. Fr. a capsule.
2222. *Callisia* Commelinaceae Around Bulebra, in shady places along rivulets. Fl. white.
2223. Amaranthaceae Around Bulebra, near houses. Fl. pink. Green black (See tube). An. spontanea?
2224. Filices Around Bulebra, along creeks, in cool, shady places
2225. Filices Around Bulebra, in shady places along creeks.
2226. *Panicum pulchellum* Raddi Gramineae Around Bulebra, in shady places along creeks.
2227. *Physalis angulata* L. Solanaceae Around Bulebra, in waste places. Glaucous and succulent. Fr. large, edible.
2228. *Cordia* Boraginaceae Around Bulebra, in bushes. Fl. white.

Jan. 4th 1911.

Around Culebra, in bushes.

2229. *Wikströmia excelsior* (Cav.) Presl.

Malvaceae

2230 *Ipomoea paliputhe* R. & S. Convolvulaceae

Around Culebra, along railroad. Fl. sulphur yellow, open in the afternoon.

2231. *Clitoria arborescens* Vit.

Leguminosae

Around Culebra, along R.R. Fl. large, yellowish white, with pale purple stamens.

2232

Compositae

Around Culebra, along R.R. Fl. sulphur yellow.

2233. *Meibomia aspera* (Poir.) Kuntze

Leguminosae

Around Culebra, in rich ground along R.R.

2234. *Contoukea spicata* Aubl.

Gentianaceae

Around Culebra, in R.R. cut. Fl. white.

2235 { *Meteoriopsis patula* (Sw.) Broth.
 Bryum coronatum Schwagr.

Musci

Around Culebra, on trunks of *Glacis melanococca*.

Jan. 6th 1911

Gorgona, shade tree in the village. Fl. white, large.

2236. *Cordia alba* Roem. & Scho

Boraginaceae

N. v. - Uvillo, uvero

2237. *Parmentiera cereifera* Lem.

Bignoniaceae

Jan. 6th 1911

Gorgona, ^{near} the town. Fl. white. Small tree, ramified from the base. Flowers mostly on trunk and thicker limbs, but also on twigs. Calyx green, tinged with brown. Corolla, stamens, styles and pollen white.

2238. *Blighia sapida* Km.

Sapindaceae

Akee (Jamaican).

Gorgona, frequent around houses. Fruit edible.

2239 *Hyptis mutabilis* (Rich.) Big. Labiatae

Around Gorgona, in pastures and waste places. Fl. violet-purple.

2240 *Hyptis* " " Labiatae

Between Gorgona and Mamei. Spikes longer and denser than the preceding.

2241 *Neritandra globosa* (Aubl.) Mez Lauraceae

Between Gorgona and Mamei. A tree in pastures.

2242. *Spmoea cathartica* Poir Convolvulaceae

Between Gorgona and Mamei, in waste places. Fl. pinkish-blue, open at 9 am.

2243. *Justicia carthagenensis* L.

Ornithaceae

Between Gorgona and Mamei, in waste places. Fl. violet.

2244 *Spmoea* (Belongston)

Convolvulaceae

Between Gorgona and Mamei, trailing on rr. talus. Fl. white, half closed at 9 am.

Jan. 6th

2245. *Cardiospermum grandiflorum* Sw. f. *elegans* Sapindaceae Between Mamei and Gorgona, trailing on R.R. talus. Fl. white.
2246. *Cormos caudatus* HBK. Compositae Between Mamei and Gorgona, common in waste places. Fl. pink.
2247. *Phaseolus hirsutus* Mart. Leguminosae Between Mamei and Gorgona, trailing in waste places. Fl. rather large, yellow. Pods hairy.
2248. *Cissus* Between Mamei and Gorgona, trailing. Fl. green.
2249. *Casearia* Flacourtiaceae Between Mamei and Gorgona. Small tree. Fl. white, very numerous, caducous.
2250. *Clome* *bad spec.* Cappariaceae Between Mamei and Gorgona. Therm. Fl. greenish or purplish.
2251. *Begonia mameiana* C. DC. Begoniaceae Near Mamei in cool, wet places.
2252. Polypodiaceae Near Mamei on humid side cut.

Jan. 6th

2253. *Glechoma geniculata* R. Br. Cyperaceae Near Mamei, in ditches along railroad.
2254. *Fimbristylis diphylla* Vahl Cyperaceae Near Mamei, in ditches along railroad.
2255. *Sorocea affinis* Hemsl. Moraceae On Culebra Hill, a small tree, ♀ fl. only.
2256. *Swartzia*? *Counatea simplex* (Sw.) Taub. Caesalpiniaceae On Culebra Hill, a small tree with dark foliage and yellow flowers.
- 2257
2257. *Puellia fulgens* Andr. Acanthaceae Jan. 7, 1911.
RR. relocation, between Mamei and Gatun. Fl. scarlet red.
herbaceous.
2258. *Begonia serratifolia* C. DC. Begoniaceae RR. relocation between Mamei and Gatun, on side-cuts.
2259. *Couratella* RR. relocation between Gorgona and Gatun, on edge of forest.
Fl. white.
2260. *Smilax* RR. relocation between Gorgona and Gatun, in forest.

2261. *Piper*

P. cordatum C. DC.

Piperaceae

Jan. 7th 1911.

R.R. relocation between Gorgona and Gatun, in forest. Treelet 2-3 m. high.

2262. *Philodendron Karstenianum* Schott.

Araceae

R.R. relocation between Gorgona and Gatun. Epiphytic.

2263. *Piper*

Piperaceae

R.R. relocation between Gorgona and Gatun, in dark forest. Treelet 3-4 m. high.

2264. *Aphelandra auriculata* Lindau

Acanthaceae

R.R. relocation between Gorgona and Gatun, in forest. Bushy, about 60 cm. high. Fl. purplish red.

2265

Rubiaceae

R.R. relocation between Gorgona and Gatun, in forest. Fruit red.

2266. *Psychotria Pittieri* Standley

Rubiaceae

R.R. relocation between Gorgona and Gatun, in forest. Fl. white.

2267. *Piper*

Piperaceae

R.R. relocation between Gorgona and Gatun, in forest. Subfrutescent, 60 cm. high.

2268. *Blechnum Brownei* Tuss.

Acanthaceae

R.R. relocation between Gorgona and Gatun, in forest. Fl. violet.

Blechnum costaricense Oerst. E.C.L. I-16-42

Jan. 7th 1911

Anonaceae

RR. relocation between ^{Caimito} Gorgona and ^{Frijoles} Gatum, in forest. A small tree, 5-8m. high. Fl. yellow. Fruits (unripe) green. (Wood sp.).

Acanthaceae

RR. relocation between Gorgona and Gatum, in sunny edges of forest. May be same as 2264, but fl. scarlet red.

RR. relocation between Gorgona and Gatum, in forest. Fl. (corolla or calyx?) tubulose, purplish green.

Bromeliaceae

RR. relocation between Gorgona and Gatum. Epiphytic.

Malvaceae

RR. relocation between Gorgona and Gatum, in sunny edges of forest. Subfrutescent, $\pm 1\frac{1}{2}$ m. high, divaricate. Fl. pink.

Convolvulaceae

RR. relocation between Gorgona and Gatum, in sunny places. Fl. pink, very numerous, open at noon.

Verbenaceae

RR. relocation between Gorgona and Gatum, in forest. A vine? Calyx and corolla violet.

Haemodorraceae

RR. relocation between Gorgona and Gatum, on side-mts. Perianth red.

Jan. 7th 1911

2277

Marantaceae

R.R. relocation between Gorgona and Gatun. In forest; fl. white.

2278 Anthurium

Araceae

R.R. relocation between Gorgona and Gatun. In forest, epiphytic.

2279 Piper reticulatum L.

Piperaceae

R.R. relocation between Gorgona and Gatun, in forest. A tree, 4-6 m. high.

2280 Peperomia gatonensis C. DC.

Piperaceae

R.R. relocation between Gorgona and Gatun, in forest. Epiphytic.

2281

Solanaceae

R.R. relocation between Gorgona and Gatun, in sunny edges of forest. Fl. violet, fr. red.

2282

Geomeraceae

R.R. relocation between Gorgona and Gatun, along shady creek. Fl. fire or golden red.

2283 Anguria warszewiczii Hook. f. Cucurbitaceae

R.R. relocation between Gorgona and Gatun, in forest. Fl. ♂ only (?), red.

2284 Geonoma

Palmae

R.R. relocation between Gorgona and Gatun, in forest.

Jan. 7th 1911.

2285. *Sobralia fragrans* Lindl. Orchidaceae RR. relocation between Gorgona and Gatun. Epiphytic. Fl. yellow (according to Mrs Gaillard).
2286. *Pourouma* Moraceae RR. relocation between Gorgona and Gatun. A middle sized tree.
2287. *Erythrina costaricensis* Micheli Papilionaceae RR. relocation between Gorgona and Gatun. A low spiny shrub. Flowers scarlet red, in dense spike.
2288. Compositae Around Culebra, in pastures and waste places.
2289. Amaranthaceae Around Culebra in pastures and waste places.
2290. *Heliconia mariae* Hook Musaceae RR. relocation between Gorgona and Gatun, everywhere in sunny damp places along edge of forest. Bracts purple red. Spikes hanging
2291. *Heliconia elongata* (Engelm) Musaceae RR. relocation between Gorgona and Gatun, the commonest species, everywhere in new clearings. Bracts red, yellow and green. Spikes erect
2292. *Synechanthus warscewiczianus* Wedd. Palmae RR. relocation between Gorgona and Gatun, in forest. ^{green} ~~yellow~~ Trunk slender, 1.5-2^m high. (Alcot. spec.)

Jan. 7th. 1911.

- 2293- *Matiguenque* Palmae RR. relocation, between Gatun and Gorgona, everywhere in forest. Spadix red (i.e. the slender rachis). Stems slender, smooth, 5-7^m high, wood very hard. 1 spadix, ♀, on trunk. Alc. sp.
2294. Fungus RR. relocation between Gatun and Gorgona, on dead trunks. White above, ± grayish below.
- 2295 Palmae RR. relocation between Gatun and Gorgona, seems common. Stems slender, smooth 6-8^m high. ♀ & ♂ spadix on same trunk. Alc. sp.
- 2296 Fungus RR. relocation between Gorgona and Gatun, on dead wood.
- 2297 Fungus RR. relocation, between Gorgona and Gatun, on dead wood
- 2298 Fungus RR. relocation between Gorgona and Gatun, on dead wood
- 2299 Fungus RR. relocation between Gorgona and Gatun, on dead wood.
2300. *Philodendron Warszewiczii* C. Kuhn. Araceae RR. relocation between Gorgona & Gatun. Epiphytic.

2301. *Carludovica* Cydanthaceae

2302. *Manihot utilisima* Pohl. Euphorbiaceae

2303. *Alseiba* *Cibourbon* Aubl. ^{hark}
Cortezia, used to make ropes Tiliaceae

2304. *Aristolochia* Aristolochiaceae

2305. *Heliocarpus appendiculatus* Turcz. Tiliaceae
Majaguillo

2306 Marantaceae

2307. *Costus* Zingiberaceae

2308. *Cissus*

Jan. 10

Cerro Gordo, near Culebra, common in bushes. Leaf stalks \pm 2 m. long. Inflorescences (with styles) whitish.

Cerro Gordo, near Culebra, in "rastrojos" (former cultivations).

Cerro Gordo, near Culebra. A little tree with flat, spreading crown. Lobes of calyx adhering at top just before anthesis.

Cerro Gordo, near Culebra, climbing on bushes. Fl. small, greenish with purple spots.


Cerro Gordo, near Culebra, a small tree 6-8 m. high, with abundant greenish yellow blossoms.

Cerro Gordo, near Culebra, in hollow, fresh places. Leaves white below. Corollae caducous, sulphur yellow.

Cerro Gordo, near Culebra, common in bushes. Stems 3-4 m. high, naked except ~~at~~ the top. Flower one at a time, white, broadly open, labellum 6-8 cm broad.

Cerro Gordo, near Culebra, trailing on bushes; fl. red.

Jan. 10th, 1911.

2309. *Inga marginata* Willd. Leguminosae Cerro Gordo near Culebra. A small tree.
2310. Filices Cerro Gordo near Culebra. Epiphytic on *Attalea*.
2311. *Dalechampia triphylla* Lam. Euphorbiaceae Cerro Gordo near Culebra, trailing on bushes.
2312. *Cassia oxyphylla* Kth. Leguminosae Cerro Gordo near Culebra. Treelet, 2-3 m. high. Fl. deep yellow.
2313. *Adelia* ^{*triloba* (Müll.-Arg.) Hemsl.} ~~*barbinervis* Schubl.~~ Euphorbiaceae Cerro Gordo near Culebra. A bushy small tree, 4-5 m. high, branching from the base.
2314. *Conarus panamensis* Griseb. Cerro Gordo near Culebra, a small tree, 2-4 m. high, often reclining. Fl. small, white.
2315. ~~*Phyllanthus*~~ Euphorbiaceae Cerro Gordo near Culebra, a small tree, 2-4 m. high. Fruits only.
Casearia sylvestris Sw. ^{non Euph. ex Griseb.; *Droopites* (Urban)}
2316. *Cochlospermum hibiscoides* Kunth. Bixaceae Cerro Gordo near Culebra. Small thecidiuous tree. Prefloration involuted, from right to left . Leaves are often on at anthesis.

2317. *Octoblepharum albidum* (L.) Hedw. Musci

Jan. 11th

Culebra, on Attalea Palm trunk. Jan. 10th 1911.

2318. *Ficus verrucosa* (Liebm.): Moraceae

Culebra, strangling an Attalea Palm. Jan. 10, 1911

2319. *Cassia baccilaris* L. fil. Caesalpiniaceae

Jan. 11th 1911.

Between Rio Chilibre and Alhajuela, Chagres Valley. Shrub 7-2 m. high.

2320 *Acisanthera quadrata* Juss. Melastomataceae

Savana de , between R. Chilibre and Alhajuela. Herbage erect; fl. pink.

2321. *Rynchospora barbata* (Vahl) Kunth. Cyperaceae

Savana de , between R. Chilibre and Alhajuela.

2322. *Schultesia heterophylla* Mig.

Gentianaceae

Savana de , between R. Chilibre and Alhajuela

2323. *Uragoga tomentosa*

Rubiaceae

Savane de , between R. Chilibre and Alhajuela; on edge of forest

2324. *Orthocladia variflora* Beauv.

Graminae

Forests between R. Chilibre and Alhajuela

Jan. 11th - 1911

2325. *Solanum* Solanaceae Along trail between R. Chilibre and Alhajiela. Shrub, 2-3 m. high. Fl. white
2326. *Aristolochia* Along trail between R. Chilibre and Alhajiela. trailing.
2327. *Sacciolepis Myuros* Chase Gramineae Savana de , between R. Chilibre and Alhajiela.
2328. *Heliconia* Musaceae Along trail between R. Chilibre and Alhajiela. Bracts yellow.
= n?
2329. *Lepidagathis alopocuroides* (Nees) Lindau ~~Alca~~ ~~hillebrandii~~ Savana de , between R. Chilibre and Alhajiela.
2330. *Pedilanthus* Euphorbiac. On dry forested hills around Alhajiela. Fl. single, bracts green & red.
2331. Compositae Dry, wooded hills around Alhajiela. Herbac., about 2^m high.
2332. Compositae Dry, wooded hills around Alhajiela. subpruticose; fl. orange.

Jan. 11th, 1911

2333. *Ruellia Haenkei* (Nees) Lindau Acanthaceae Dry hills around Alhajuela. Fl. purple. Gregarious
2334. *Quamoclit* Convolvulaceae Dry hills around Alhajuela.
2335. *Ichnanthus pallens* Munro. Gramineae Dry hills around Alhajuela.
2336. *Justicia secunda* Vahl. Acanthaceae Dry hills and along Chagres around Alhajuela. Fl. incarnate.
2337. *Neurolaena lobata*.
Viborrana Compositae Along trails and in bushes around Alhajuela.
2338. *Chaetochlamys panamensis* Lindau. Acanthaceae Along shady trails around Alhajuela.
2339. *Olyra latifolia* L. Gramin. Dry sandstone, wooded hills around Alhajuela. A tambo, with slender, trailing canes.
2340. *Benthameantha caribaea* (Jacq.) Willd. Leguminosae Along trails around Alhajuela. Fl. purplish yellow.

Jan. 11, 1911.

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|--|------------------|---|
| 2341. <i>Quamoclit</i> | Convolvulaceae | Open, sunny places around Alhajiela. |
| 2342. <i>Lasiacis divaricata</i> Hitchc.
Carrizillo | Graminae | In dry forests around Alhajiela. Covers the cliffs in overhanging masses along Chagres R. |
| 2343. <i>Cassia biflora</i> L. | Caesalpinjiaceae | In dry open places around Alhajiela. Fl. yellow. |
| 2344. <i>Anthurium crassinervium</i> Jacq. Schott. | Araceae | Epiphytic in dry forests around Alhajiela. |
| 2345 | Loasaceae | Gravel beach of the Chagres at Alhajiela, probably brought down by floods. Leaves thorny, thick, purple below. Fl. bright yellow. |
| 2346. <i>Paullinia glomerulosa</i> Radlk. | Leguminosae | Bushes around Alhajiela, a vine with red fruits. |
| 2347 | Filices | Low wood along Chagres around Alhajiela. |
| 2348. <i>Cyperus simplex</i> H. B. K. | Cyperaceae | Damp places along Chagres at Alhajiela. |

Jan. 11th 1911.

2349. *Yelaginella*

On rocks along Chagres at Alhajuela

2350. *Neckera disticha* Hedw.

Musci.

On trunks and tree branches along Chagres at Alhajuela.

2351

Filices

On rocks along Chagres at Alhajuela

2352. *Panicum trichoides* Sw.

Gramin.

Dry forests around Alhajuela.

2353.

Filices

On rocks along Chagres at Alhajuela.

2354.

See Lycopodium

Leguminosae

Cleavings along Alhajuela. Fl. purplish, rather undeveloped.

2355. *Lycoseris*

Compositae

Dry, sunny bushes around Alhajuela. Capitules large.

2356 .

Commelinaceae

Shade of coffee trees behind the house at Alhajuela.

Jan. 11-12-1911.

2357. *Pseuderanthemum cuspidatum* Radlk. Acanthaceae

Around station house at Alhajucla.

2358 *Elatium longiflorum* Cogn. Cucurbitaceae

In shady places at Alhajucla. Fl. deep yellow.

23

2359 *Melothria guadalupensis* (Spreng.) Cogn. Cucurbitaceae
Sandillita

In shady places at Alhajucla. Fl. pale yellow.

2360. *Sitaxis macrobotrys* Pax. & K. Hoffm. Euphorbiaceae

In shady places at Alhajucla. Fl. yellowish white.

2361. *Calycophyllum candidissimum* D.C. Rubiaceae
Alazano

Dry forests around Alhajucla. A middle-sized tree, with ascending limbs, irregular, elongate crown, straight trunk and reddish, stringy or scaly bark.

Jan. 12. 1911

2362. *Telaginella*

Between Alhajucla and El Vigia, in forest.

2363. *Cassia nicaraguensis* Benth.

Caesalpinaceae

Between Alhajucla and El Vigia, in forest. 2-3m. high. Fl. golden yellow. Gregarious

2364.

Commelinaceae

Between Alhajucla and El Vigia, in forest. Gregarious. Fl. white.

Jan. 12th, 1911

23 2365 *Pseudabutilon spicatum* (H.B.K.) R. & Fries. Malvaceae Between Alhajiela and El Vigia, in clearings. Shrub, 2^m high.

23 2366 *Cleome* Between Alhajiela and El Vigia, in forest. Fl. greenish white.

23 2367 *Cassia pilifera* Vogel. Leguminosae Between Alhajiela and El Vigia, in sunny clearings. Shrub 2-3 m. high.

23 2368 *Clitoria arborescens* Ait.
= 2231 Leguminosae Between Alhajiela and El Vigia, in high forest. A large vine, climbing on the highest trees.

23 2369 *Peperomia* Piperaceae Between Alhajiela and El Vigia, in dark forest. On stones and trunks.

23 2370 *Selaginella* Between Alhajiela and El Vigia, in dark forest.

23 2371 *Tournefortia* Boraginaceae Between Alhajiela and El Vigia, in clearings. A shrub; fl. white.

23 2372 *Psychotria undata* Jacq. Rubiaceae Between Alhajiela and El Vigia, in shade. Low shrub; fl. white.

Jan. 12th 1912

- 2 2373. *Costus* Zingiberaceae Between Alhapiela and El Vigia, in cool places. Fl. orange red. Plant about 50 cm. high.
- 2 2374. *Liparis elata* Lindl. Orchidaceae Between Alhapiela and El Vigia, in shady forest. Terrestrial
- 2 2375 Marchantiaceae Between Alhapiela and El Vigia, in shady forest, on mossy trunks
- 2 2376. *Cuphea calophylla* C. TS, Lythraceae Rocky banks of Chagres at El Vigia.
- 2 2377. *Cuphea calophylla* C. TS, Lythraceae Rocky banks of Chagres, at El Vigia.
- 2 2378. *Duggena nudis* Standley n. sp. Rubiaceae Shady places along Chagres at El Vigia
- 2 2379. *Psychotria leuconeura* Standley Rubiaceae Sabana de Marcelito near El Vigia, on edge of forest. Fl. white
- 2 2380. *Bradburya angustifolia* ^{Benth.} (HBK.) O. Kze Leguminosae Sabana de Marcelito near El Vigia. Fl. pinkish-purple.

Jan. 12th, 1912

2 2381. *Paspalum Slogolii*

Graminae
~~Melastomaceae~~

Sabana de Marcelito, near El Vigia, in shady places

2 2382. *Clidemia rubra* (Aubl.) Mart. Melastomaceae

Sabana de Marcelito, near el Vigia, on edge of forest.

2

2 2383

Compositae

Sabana de Marcelito, near El Vigia.

2 2384. *Polygala hygrophila* H. B. K.

Polygalaceae

Sabana de Marcelito near El Vigia

2 2385. *Polygala tinouctou* Aubl.

Polygalaceae

Sabana de Marcelito near El Vigia

2386

Compositae

Sabana de Marcelito near El Vigia. Shrubby.

2

2387. *Eriosema crinitum* (H. B. K.) Don.

Leguminosae

Sabana de Marcelito, near El Vigia. Fl. jaunes

2

2388. *Borreria tenella* (H. B. K.) L. & S.

Rubiaceae

Sabana de Marcelito, near El Vigia. Fl. white.

2

Jan. 12th 1912

2 2389 *Hyptis laurifolia* Poit. ~~Compositae~~

Sabana de Marcelito, near El Vigia.

2 2390 *brachiata* Brie

~~Melochia~~ *Stroculia* ~~ceae~~

Sabana de Marcelito, near El Vigia.

2

2 2391 *Chamaecrista diphylla* (L.)

Leguminosae

Sabana de Marcelito, near El Vigia. Shrubby, 0.5-3 m. high.
Fl. yellow.

2 2392 *Clidemia dentata* Don Melastomaceae

Sabana de Marcelito, near El Vigia, on edge of forest. Low shrub. Fl. white.

2 2393 *Selaginella*

Selaginellaceae Forests around El Vigia, in shady places.

2 2394 *Heteranthera reniformis* R. & P.

Pontederiaceae Along R. Chagres between El Vigia & Alhajuela. Fl. white

2 2395

Schwackaea cupheoides (Benth) Cogn.

Melastomataceae

Along R. Chagres between El Vigia & Alhajuela. Fl. pink.

2 2396 *Pogonopus speciosus* Schum.

Rubiaceae

Along R. Chagres between El Vigia & Alhajuela. Treelet; bracts purplish; corolla purple.

Jan. 12th 1912.

2 2397. *Macrocnemum glabrescens* (Benth.) Wedd. Rutaceae

Along R. Chagres, between El Vigía and Alhajuela. A small tree.
Leaves shining above, glaucous below. Fl. pink.

2 2398. *Nerthandra rectinervis* Lauraceae
Ligua Meisner

Along R. Chagres, between El Vigía and Alhajuela. A tree, 20^m high.
Fl. white.

2 2399. *Picramnia umbrosa* Lam. ^{*latifolia* Tul.} Simarubaceae

Around Juan Mina, on the Chagres. A small, umbrelliform tree.

2 2400. *Jatropha curcas* L.
Coquillo

Euphorbiaceae

Juan Mina, near houses (never seen wild).

2 2401. *Ossaea diversifolia*
(Naud.) Cogn

Melastomat.

Around Juan Mina. A low shrub; fl. pinkish

2402. *Justicia secunda* Vahl.

Acanthaceae

Gamboa, along the Chagres.

2403. *Marathrum*

Along río Chagres, between El Vigía and Alhajuela

Jan. 15th

2 2404. *Glazis melanococca* Gaertn.
Corozo Colorado

Palmae

Around Culebra. Low trunk (up to 1.50. ♀ racemes with a
thick spadix and angulose branchlets ending in a thorn. Perianth
divisions of ♂ fl. 6, coriaceous, translucent, the 3 exterior ones narrow.
Stam. 6, the filaments forming an urceolate tube. Male racemes
smaller, softer, the ends of the spikelets less pointed.

2405. *Clitoria arborescens* Clit.
= 2231, 2368.

Jan. 15
Leguminosae Around Gorgona, forming a shrubby bush. Note change of habit when the forest is destroyed (coll. by Col. Gaillard).

2406. *Trigonidium Lemanii* Rehb. f.

Orchidaceae Around Gorgona, epiphytic - Cult. by Mrs Gaillard.

2407. *Bombax panamense* Pittier

Bombaceae An isolated tree at Culebra, about 20m. high, peeling like sycamore. Fl. white, erect, the stamens forming a crown. Blooms in the morning. Bark greenish gray. Very few old leaves when in bloom.

2408. *Sobralia decora* Batem.

Orchidaceae From around Gorgona, cult. by Mrs Gaillard. Calyx pink, inner segments darker.

2409. *Epidendrum latilabre* Lindl.

Orchidaceae From the Savana in Panama, cult. by Mrs G. Fl. greenish yellow, sweet scented. (On *Crescentia*).

2410. *Maxillaria crassifolia* Rehb. fil.

Orchidaceae From around Gorgona, cult. by Mrs G. Fl. pale yellow, the tips of calyx green.

2411. *Loxanthia pallida* Rehb. f.

Orchidaceae From around Culebra, cult. by Mrs Rousseau. Fl. greenish white.

2412

Lichen Culebra, on bark of *Anacardium occidentale*.

Jan. 15

2413

Lichen

Culebra, on bark of *Persea gratissima*.

2414

Lichen

Culebra, on bark of *Tuga* n° 2423.

2415

Lichen

Culebra, on bark of *Tuga* n° 2423

2416

Lichen

Culebra, on bark of *Tuga* n° 2423

2417

Lichen

Culebra, on bark of *Tuga* n° 2423

2418

Lichen

Culebra, on bark of *Tuga* n° 2423

2419

Lichen

Culebra, on bark of *Tuga* n° 2423

2420

Marchetia

Culebra, on bark of *Tuga* n° 2423

2421

Marchantiac.

Jan. 15
Culebra, on bark of *Ficus* n° 2423.

2422. ~~*Bombax panamense* Pittier.~~

Bombacopsis sessilis (Benth.) Pittier

Bombacaceae

Culebra, a small tree, 10 m. high, smooth greenish bark, flowering with all leaves on. Petals longer than the stamens, half green (part covered) half greenish purple (part exposed); filaments white, style pink. Calyx tubular.

2423. *Ficus spectabilis* Willd.

Leguminosae

2424. *Philodendron Hoffmannii* Schott.?

Araceae

Jan. 17-18th 1911.
Porto Bello, behind the village - Epiphytic

2425

Filices

Porto Bello, in forest. Sub-arborescent

2426 *Clerodendron adpressum* Steud. Melastomaceae

Porto Bello, in forest. Prostrate, low bush.

2427. *Hydrophilum brasiliensis* (Spr.) Lindau
guianensis Nees

Acanthaceae

Porto Bello, in swampy places. Fl. white

2428. *Peperomia dilatatum* Rich.

Piperaceae

Porto Bello, on forest edge. A treelet, 2-3 m. high.

2429. *Piper*.

2430. *Separuna*

Monimiaceae

Jan. 17-18. 1911.
Porto Bello, on forest edge. A treelet 2-3m. high.

2431

Bromeliaceae

Porto Bello, in forest. A small tree, 2-

2432

Filices

Porto Bello, in forest, epiphytic.

2433 *Psychotria chagrensis* Standl. Rubiaceae

Porto Bello, in forest, a low bush. Flowers white.

2434. *Strobilacanthus cordatus*, Lind. sp. nov. Acanthaceae

Porto Bello, in shady forest. Fl. purple, caducous.

2435 *Miconia barbinervis* Triana Melastomataceae

Porto Bello, in shady forest. Young flowers?

2436. *Paullinia mallophylla* Radlk.

Lapindaceae

Porto Bello, in shady forest. A vine, with clusters of white
flowers, in axils of leaves.

Jan. 17-18th

2437. *Vismia guianensis* Guttiferae
(Aubl.) Pers.

Porto Bello, in shady forest. Fl. greenish white; a treelet 3" high.

2438. *Piper aduncum laurifolium* C. DC. Piperaceae

Porto Bello, on forest edges. A treelet.

2439. ~~Stemodia~~ *Hyptis verticillata* Jacq.
2438 - *Piper glaberrimum*

Porto Bello, in swampy meadows.

in edge

2440
Acisanthera paludosa (Mart.) Triana Melastomataceae

Porto Bello, in shady, swampy places.

2441. *Piper auritum amplifolium* C. DC. Piperaceae

Porto Bello, on forest edge; subliguous, with hollow stems, 2-3
high.

2442

Scrophulariaceae

Porto Bello, in swampy meadows. Flower purplish blue.

2443. *Panicum laxum* Sw.

Graminae

Porto Bello, in swampy meadows.

2444. *Paspalum conjugatum* Berg.

Graminae

Porto Be

Jan. 17-18th

2445. *Kyllinga pumila* Michx. Cyperaceae

Porto Bello, in swampy meadow.

2446. *Gesneria tubiflora* Cav.
= *Köhleria tubiflora* (Cav.) Hausskn. Gesneraceae

Porto Bello, on old walls, common. Fl. tubulose, red.

2447

Porto Bello, on old walls.

2448. *Peperomia* Piperaceae

Porto Bello, epiphytic and on old walls.

2449 *Salvia micrantha* Vahl Labiatae.

Porto Bello, on old walls.

2450. *Mucuna rostrata* (L.) DC. Legumin

Porto Bello. A vine climbing high up on trees. Flower
in hanging spike, golden yellow, very large

2451

Melastomaceae

Porto Bello, in swampy places. Flowers pinkish white.
Stems reddish.

2452. *Oldenlandia herbacea*

Rubiaceae

Porto Bello in swampy places.

Jan. 17-18th

Porto Bello, in swampy meadows.

2453. *Eleocharis acicularis* (L.) R. Br. Cyperaceae

2454. *Lachne trachysperma* Gramineae

Porto Bello, in swampy meadows.

2455. *Timbristylis diphylla* Vahl. Cyperaceae

Porto Bello, in swampy meadows.

2456.

Porto Bello, in swampy meadows. Flowers white

2457. Compositae

Porto Bello, in bushes, swampy places. Fl. white.

2458. *Meibomia supina* (Sw.) Britton. Leguminosae

Porto Bello, in swampy meadows. Fl. pink.

2459. *Jussiaea suffruticosa* L.

Porto Bello, in swampy meadows. Fl. yellow.

2460. *Hydrolea spinosa*

Porto Bello, in swampy meadows. Spiny; fl. azure blue

2461. *Passiflora vespertilio* L.

Passifloraceae

Jan. 17-18th

Porto Bello, in swampy meadow. Fl. white.

2462.

Porto Bello, in swampy meadow. Fl. white

2463. *Meibomia*

Porto Bello, in swampy meadow. Fl. pink.

2464. *Codonanthe calcarata* Haust.

Porto Bello, in dark forest. Epiphytic. Fl. white.

2465. *Stachytarpheta jamaicensis* (L.) Vahl

Porto Bello, in waste places.

2466. *Cyperus Luzulae* Rottb.

Cyperaceae

Porto Bello, in swampy meadows.

2467. *Wedelia trilobata* (L.) Hitchc. Compositae

Porto Bello, in the beach.

2468. *Polystachya masayensis* Rehb. f.

Orchidaceae

Porto Bello, Epiphytic. Fl. yellow.

2469. *Peperomia pellucida pygmaea* Mig. Piperaceae

2470. *Heliotropium indicum* L. Boraginaceae

2471. *Sporobolus polyanthus* R. & S.

2472. *Gleome polygama* L. Guttiferaceae

2473. Bromeliaceae

2474. *Passiflora*

2475. Apocynaceae

2476. *Pogonopus ~~typicus~~ (Jacq.) Schum.* Rubiaceae

Jan. 17-18th

Porto Bello. Terrestrial on swampy ground.

Porto Bello. Along the beach.

Porto Bello. In open, sunny places. Fl. yellow.

Porto Bello, in swampy, sunny places. Fl. white, tinged pink.

Porto Bello, epiphytic.

Porto Bello, in waste places. Fl. white.

Porto Bello. in swamps. Fl. white, with golden throat.

Porto Bello, in forest. A small tree, 5-7^m high. ^{calyx} Bract slender.
Corolla purple.

2477. *Piper*

2478. *Panicum fasciculatum* Sw.

Gramin.

2479. *Eleusine indica* Gaertn.

Graminae

2480. *Paspalum conjugatum* Berg.

Graminae

2481. *Panicum pilosum* Sw.

Gramin.

2482. *Aphelandra Sinclairiana* Nees.

Acanthaceae

2483. *Psychotria marginata* Sw.

Rubiaceae

2484. *Quatteria angulifolia* Tr. & Planch.

Anonaceae

Jan. 17-18th

Porto Bello, in dry forest at the old castle.

Porto Bello, in forest, castle hill.

Porto Bello, in clearings

Porto Bello, in clearings

Porto Bello, in clearings.

Porto Bello, in dry forest. A shrub, 4-5 m. high. Fl. purple.

Porto Bello, in forest. Fl. pale, yellow

Porto Bello, in forest. Fl. pale yellow. A small tree 5-7^m high.

Jan.

2485

Cucurbitaceae

2486. Calathea

2487. Urena

Urticaceae

2488.

Gesneraceae

2489. Selaginella

2490. ~~Pithecolobium~~ Inga rufescens Benth. Mimosaceae
Arino, or Harino, or Jarino

2491. ~~Stigmaphyllon~~
humboldtianum Juss. Malpighiaceae

2492. Ipomoea polyanthes R. & S. Convolvulaceae
Batalilla amarilla

17th - 18th.

Porto Bello. ♂ fl. of an epiphytic vine growing high in trees.
bottle whitish green.

Porto Bello, on castle hill.

Porto Bello, on castle ruins, a tree 5-7^m high. Spikes often
20 cm. long.

Porto Bello, on the walls of old castle. Fl. yellow. Calyx
inflated.

Porto Bello, on shady walls in Spanish ruins

Around Culebra, a tree with dark foliage and round crown.

Jan. 21st 1911.

Miraflores. Trailing on the bushes. Fl. yellow.

Miraflores. Trailing on bushes. Fl. yellow. Leaf broadly hastate.

2493. ~~Rhaphanistrum~~ *Calopogonium caeruleum* ~~Sw.~~ Leguminosae

2494. *Sapindus Saponaria* L. f. *inaequalis* Sapindaceae

2495. *Nectandra* ~~glabra~~ *globosa* (Hubl.) ^{Mez} Lauraceae

2496. *Mucuna pruriens* D.C. Leguminosae
Cowvetch, itch plant, of the Barbadians

2497. *Cissus sicyoides*? Vitaceae

2498. *Ipomoea polyanthes* R. & S.

2499. *Muntingia calabura* L. Sterculiaceae

2500. *Ipomoea quinquefolia* L. Convolvulaceae

Jan. 21st 1911.

Miraflores, on railway embankment. Fl. azure blue.

Miraflores, in low ground. A tree \pm 15 m. high, with a rounded depressed crown.

Miraflores. A small tree, with white flowers.

Miraflores, on rr. embankment. Fl. purple.

Near Miraflores, in low wet dumps. Fl. greenish; fr. black.

Near Miraflores, on Rr. embankment. Leaves narrow hastate, fl. yellow. (Compare with 2492)

Near Miraflores. A small tree with white flowers.

Near Miraflores. Trailing on Rr. embankment. Fl. white.

2501. *Helicteres guazumifolia* H.B.K.

Sterculiaceae

Jan. 21, 1911

Between Miraflores and Pedro Miguel. A shrub 2-3 m. high.

2502. *Cassia reticulata* Willd.

Caesalpiniaceae

Between Miraflores & Pedro Miguel in swampy dumps

2503. *Imbristylis ~~nigricarpa~~* Vahl.

Cyperaceae

Between Miraflores & Pedro Miguel in swampy dumps

2504

Between Miraflores and Pedro Miguel - Sticky. Fl. flowers

2505. *Echinochloa colona* Link.

Graminae

Between Miraflores and Pedro Miguel, along the railroad.

2506. *Ischaemum rugosum*

Graminae

Between Miraflores and Pedro Miguel, along the railroad.

2507. *Glecharis cepitata* (L.) R. Br.

Cyperaceae

Between Miraflores & Pedro Miguel, in wet places.

2508. *Echinochloa sabulicola* Hitchc.

Graminae

Between Miraflores & Pedro Miguel C. Z.

2509. *Panicum geminatum* Forsk. Graminae

2510. *Dolicholus angulatus* Standley sp. n. Leguminosae

2511. *Ochroma Lagopus* Sw. ~~Sterculiaceae~~

2512. *Pachira Barrigon* Lem. Bombacaceae

2513. *Muntingia calabura* L. Sterculiaceae

2514. *Dylopia* Annonaceae

2515. *Passiflora Seemmannii* Griseb. Passifloraceae

2516. *Lebbes Lebbes* (L.) Leguminosae

Jan. 21st 1911

Between Miraflores & Pedro Miguel

Between Miraflores & Pedro Miguel, along the R.R. Fl. yellow.

Between Miraflores & Pedro Miguel. A tree. Fl. white

Paraiso. A tree. Fl. white, short and thick

Western bank of Canal. Las Cascadas. Tree 5" in diam.
8^m high, smooth bark. - Colonel J. D. Gaillard.

Eastern bank of Canal, opposite Las Cascadas. A tree, with
the above dimensions. Col. J. D. Gaillard.

Along canal, about Las Cascadas. Col. J. D. Gaillard.

Along canal, about Las Cascadas, in bushes. Col. J. D. G.

Jan. 21

1911.

2517. *Passiflora vitifolia* H.B.K.

Passifloraceae

Las cascadas, along canal, in bushes - Col. J.D. Gaillard

2518. *Mucuna pruriens* L.

Fabaceae

Bucaracha C.Z., in waste places. Fl. dark purple.

2519. *Meibomia cajanifolia* (HBK) Kuntze

Bucaracha C.Z., everywhere in waste places. Fl. lilac.

2520.

Convolvulaceae

Bucaracha C.Z., trailing on bushes. Fl. pale blue.

Jan. 24th 1911.

2521.

Compositae

Around Rio Grande, near Culbra, in bushes - 1.50 - 2m. high.
fl. white.

2522. *Solanum*

Around Rio Grande, near Culbra, in bushes. A treelet, flat
crowned, 2.50 high - Fl. white.

2523. *Luehea Seemannii* Pl. & Tr.

Biliaceae

Around R. Grande, near Culbra, a tree \pm 15^m high, with
ovate crown. Leaves dark green above. Fl. small, white.

2524. *Canna Warscewiczii* Dietr.

Cannaceae

Around R. Grande, near Culbra, in open, damp places.
Fl. red.

Jan. 24, 1911

2525. *Canna lutea* Mill. Cannaceae
Around R. Grande, near Culebra. Fl. golden yellow with
~~scarlet~~ scarlet streaks.
2526. *Erythrina* Papilionaceae
Leaves of n: 2287?
Bucaracha near Paraiso, along railroad. Shrub with thick
branches, about 1.50 high.
2527. *Eriotheca panamensis* Muell. Arg. Euphorbiaceae
Bucaracha near Paraiso, on creek bank, a tree with a flat
crown and pale foliage.
2528. *Acalypha diversifolia* Euphorbiaceae
Jany.
Bucaracha near Paraiso, along creek. Shrub or small tree, 2-3 m.
2529. *Boerhaavia erecta* L. Nyctaginaceae
Bucaracha near Paraiso, along railroad. Fl. pink.
2530. Compositae
Bucaracha, trailing on rocks. Ligulae orange red, center orange.
- 2530^b. *Pedilanthus* Euphorbiaceae
2531. *Echinodorus bracteatus* Michx. Alismataceae
Bucaracha, near Paraiso, in ditches along R.R. - Spikes 1.20-
1.50 high, fl. white.
2532. *Cassia regia* Standley Caesalpiniaceae
Bucaracha, a tree in camp. Calyx purple. Corolla yellow
with purple veins, and ± pinkish at base. St. & style yellow.

2533. *Ipomoea meyeri* (Spreng.) Don

Jan. 24, 1911.

Cucaracha, near Paraiso. voluble on bushes and grass. Fl. small, dark bluish purple, open 10 am.

2534. *Piper hispidum* Sw. Piperaceae

Paraiso, in village. Shrub \pm 2m. high.

2535. *Piper tuberculatum* Jacq. Piperaceae

Paraiso, in village. A shrub \pm 2.50 high.

2536. *Evolvulus* Convolvulaceae

Jan. 25, 1911.

Savana de Panama, in meadows

2537. *Bouteloua disticha* (H. B. K.) Benth. Gramineae

Savana de Panama, in meadows.

2538. *Inga spuria* Willd. Leguminosae

Savana de Panama, a tree 15m. high.

2539. *Xylopia*

Savana de Panama, a tree about 5m. high.

2540. ~~*Prodivia*~~ *coriacea* Myrsiniaceae
Scacarea revoluta (H. B. K.) Standl.

Forests near Juan Dia, road to old Panama. A treelet, 4m high.

2541. *Erythrina rubrinervia* H.B.K. Papilionaceae

2542. *Oterolepis trichotoma* (Rottb.) Cogn. Melastomataceae

2543. *Pectis elongata* H.B.K. Compositae

2544. *Muehlenbergia nebulosa* Scribn. Graminae

2545. *Andropogon brevifolius* Sw. Graminae

2546. *Borreria laevis* (Lam.) Griseb. Rubiaceae

2547. *Quazuma ulmifolia* Lam. Sterculiaceae

2548. *Malache panamensis* Standley Malvaceae

Jan. 25th

Near R. ^{Olajo} ~~San Juan~~, a tree of variable size. Fl. pale scarlet.

Savana de Panama, in meadows. Fl. pink.

Savana de Panama, in meadows

Savana de Panama, in meadows.

Savana de Panama, in meadows

Savana de Panama, in meadows

Savana de Panama, in meadows

Savana de Panama, on edges of forests.

Jan. 25th 1911.

2549. ^{Bombax} *Pachira Fendleri* (Seem.). Bombacaceae Forests of Juan Dia. a spiny tree.
2550. *Cassia (oxyphyllaria) baccularis* Lin. fil. Caesalpinaceae Forests of Juan Dia. a shrub, about 2' high.
2551. *Loxanthia pallida* Rehb. f. Orchidaceae Forests of Juan Dia. epiphytic; fl. white.
2552. Orchidaceae Forests of Juan Dia. epiphytic. fl. pale yellow.
2553. *Barleria micans* Nees Acanthaceae Forests of Juan Dia. in open fields.
2554. *Limnocharis flava* Buchenau & minor Micheli. Swampy places along road near Juan Dia. fl. yellow.
2555. *Cassia tora* L. Along road at Juan Dia. suffrutescent?
2556. ^{Crotonia} *Stylogyne ramiflora* (Verst.) Mez Myrsinaceae Forests of Juan Dia. A shrub, 1 m. high. Fl. numerous, white.

2557. *Hoana quadrivalvis* Seem.

Forests of Juan Dia, in forests. A large tree, with round crown.

2558. *Oldenlandia herbacea* L.

Jan. 26th 1911.

Gatun, on Rr. talus. Fl. small, white.

2559. *Panicum barbinode* Trin.

Graminae

Gatun, forming clumps on lake.

2560

Commelynac.

Gatun, in waste places. Fl. blue

2561 *Ipomoea marlei* Duch. & Walp.

Convolvulaceae

Gatun, on Rr. embankment. Fl. purplish pink.

2562. *Quassia amara* L.

Simarubaceae

Gatun, in woods along Railroad. Fl. pink. A small tree, 2-3 m. high.

2563. *Lippia geminata* H.B.K.

Verbenaceae

Gatun, on Rr. embankment. Fl. lilac-white. Odoriferous.

2564 *Tournefortia
stylosa* Hemsl.

Euphorbiaceae

Between Gatun & Tiger Hill, in woods. Fl. greenish.

2565. *Matea occidentalis* Benth. v. *genuina* ^{Mull. Arg.} ~~Euphorbiaceae~~

Jan. 26th 1911.

Between Gatun & Tiger Hill, in woods. Treelet 2-4 m high. Calyx purple.

2566 ~~Connaraceae~~

Between Gatun & Tiger Hill, in woods. A ^{vine, short & thick} ~~small & tree~~ tree. Fl. yellowish green.

2567. ~~Chrysophyllum~~ *Eugenia acapulcensis* ~~Steud.~~ ~~Lapotaceae~~

Between Gatun & Tiger Hill, in woods. A small tree, 2-4 m high. Fl. greenish. Corolla & st. caducous.

2568. *Serjania cornigera* Turcz. ~~Lapindaceae~~

Between Gatun & Tiger Hill, in Heliconia formation. A vine

2569 ~~Solanaceae~~

Between Gatun & Tiger Hill. A small tree, with flat crown. Leaves shiny above, pulverulent below.

2570. *Coccoloba* ~~Polygonaceae~~

Between Gatun & Tiger Hill. A tree, ramified from the base, growing in swampy ground. Fl. greenish.

2571. *Erythrina glauca* Willd. ~~Leguminosae~~
n.v. *gallito*.

Between Lion Hill and Bohio, in swamps. Fl. orange-yellow.

2572. *Eichhornia*? ~~Pontederiaceae~~

Black Swamp, between Lion Hill and Bohio.

2573. *Lesbania grandiflora* Pers Leguminosae
(*Agati grandiflora*)

Cultivated as ornamental in Ancón and Culebra. Said to have been introduced by the French. Fl. white, hanging.

2574. *Cheobroma purpureum* Pittier Sterculiaceae

Hills around Paraiso, a straight, unramified treelet. Cauliflorous. Calyx globose, roughly hairy and brownish outside. Petals deep purple.

2575. *Salvia hyptoides* M. & G. Labiatae

Hills around Paraiso, in bushes. Fl. pale blue.

2576. *Arrabidaea isthmica* Standl.
Bignonia ~~isthmica~~ *isthmica* Standl. Bignoniaceae
Flor de pajarito

Hills around Paraiso, in bushes, trailing on trees. Fl. very numerous pink.

2577. *Bauhinia*

Hills around Paraiso. A high climbing vine.

2578. *Calea urticifolia* (Mill.) D.C. Compositae

Hills around Paraiso. a shrub, $\pm 1.50^m$ high.

2579. *Guazuma ulmifolia tomentosa* Sch. Sterculiaceae

Paraiso, a tree about 25^m high.

2580. *Savia*?

A small tree, 20 cm. in diam. trunk 3 m. high, crown flat and spreading.

2581. *Dicranella Herminieri* Besch.

Musci

2582

Filices

2583

Filices

2584. *Belotia mexicana* (D.C.) K. Schum.

Giliaceae

2585 *Stigma phyllon*
humboldtianum Juss. Malpighiaceae

2586. *Passiflora Seemannii* Griseb.?

Passifloraceae

2587. *Phytolacca*

2588.

Filices

Jan. 29th 1911

Along the road to Las Cascadas, Masambi Valley, on rocks.

Along Rio Masambi, road to the Las Cascadas Plantation

Along R. Masambi, road to the Las Cascadas Plantation.

Along R. Masambi, road to the Las Cascadas Plantation. A small tree.
4-6 m. high. Calyx pinkish. Corolla purple.

Along R. Masambi, in sunny places, trailing on bushes. Fl. yellow.

Along R. Masambi, common. Showing 2 forms of leaves. Seen also
at Gatun, Paraiso.

Along R. Masambi, common in clearings.

Along R. Masambi, in sunny slopes.

Jan. 29th

2589 *Psadalea sphaerocarpa* Cucurbitaceae
Brujito Colgr.

Along R. Masambi, trailing on bushes. ♀ & ♂ fl. yellow. Fr. spherical,
peduncle 5-10 cm. long; diam. of fruit \pm 10-12 cm.

2590. *Lygodium radiatum* Filices

Along R. Masambi. Volute and climbing.

2591. *Pteris* Filices

Along R. Masambi, in cacao plantations.

2592. *Ouraportia* Boraginaceae

Along R. Masambi, in cacao plantations.

2593. *Peperomia glabella* R. Dietr. Piperaceae

Along R. Masambi, epiphytic.

2594 Filices

Along R. Masambi, in cacao plantations.

2595. *Ghysis* Orchidaceae

Gatin. Coll. by Mrs Rousseau. 4 pods on a peduncle \pm 30 cm.
long. (Jan. 1911.)

2596. *Holcus halepensis* L. Gramin.

Around Calobra in waste places. Introduced?

2597. *Octoblepharum albidum* (L.) Hedw.

Musci.

2598. *Dactyloctenium aegyptium* Richt.

Gramin.

2599

Compositae

2600. *Dioscorea* ~~*Verstedtii*~~ Schott.

Oraceae

2601. *Sporoclea moreletii* DuRoi & Walp.

Convolvulaceae

2602. *Ficus Pittieri* Standley.

Moraceae

(Discov. by Fendler at Chagres, March 1850);

2603. *Laportea Moritzianum*

Olivo

2604.

Loranthaceae

Petr. 1^o, 1911.

Gamboa, on trunks of *Crescentia* buje.

Gamboa, in waste places along railroads.

Gamboa, in bushes. Fl. pale lilac.

Gamboa, on trail to Cruces in ditch. Brit.

Gamboa, everywhere on bushes and trees. Leaves velvety. Fl. large, pink. Open in morning and pm.

Gamboa, a tree near ^{the} French camp.

Gamboa. A tree, 20^m high. No flowers - Photo.

Gamboa, on *Erythrina*.

2605. *Epidendrum stenopetalum* Kth.

Orchidaceae

2606. *Desmoncus isthmicus* Bailey

Palmae

Det. R. S. G.

2607. *Argemone*

Myrsinaceae

Stylogyne raniiflora (Vest.) Mez

2608. *Coccoloba acuminata* H. B. K. *β glabra* Lind

Polygonaceae

2609. *Cestrum* ~~*latifolium*~~ *macrophyllum* Vest.

Solanaceae

2610. *Notylia pentachne* Rob. f.

Orchidaceae

2611

Orchidaceae

2612. *Campylocentrum stenanthum* Schltr.

Orchidaceae

Febr. 1^o

Gamboa, epiphytic.

Gamboa, along creek. Climbing. Stem 8-10 m. long. Fl. yellow. Fruit red.

Gamboa, in shady wood along creek. Treelet 1-2 m. high. Inflorescences caulifl., white. Fl. white or pinkish white.

Gamboa, along creek. Bush. Racemes hanging. Calyx red. ♂ fl. white, very small.

Gamboa, in shady wood. Fl. greenish white, corolla very caducous.

Gamboa, on coffee trees. Fl. greenish.

Gamboa, on coffee trees. Fl. greenish.

Gamboa, epiphytic. Fl. brownish or yellowish.

Febr. 1st 1911

2613. *Trigonidium Semanni* Rehb. f. Orchidaceae

Gamboa, abundant on *Erescentia*. Fl. pale yellow or brownish.

2614. *Chaetochlamys panamensis* Lindau Acanthaceae

Around bruses, on sandy soil along creek. Fl. violet.

2615. *Orthocladia variflora* Beauv. Gramineae

Around bruses, in dry, clayey ground.

2616. *Rynchospora cephalotes* (L.) Vahl. Cyperaceae

Around bruses, in old clearings

2616a. *Scleria mitis* Berg.

2617 Solanaceae

Around bruses, a treelet 60m. high, with purple fl.

2618. *Waltheria glomerata* Presl. Sterculiaceae

Around bruses, everywhere in bushes. Shrub or treelet 1-3m high.
Fl. white.

2619. ~~*Promelia*~~ *Jacquemontia menispermoides* Choisy Convolvulaceae

Around bruses, trailing on bushes. Fl. pale blue.

2620. *Giparuna*

Around bruses. Small tree, with arched main trunk. 3-5m high.

2621. *Acacia Farnesiana*

Mimosaceae

Bruces. A small tree, 3-4 m. high, branching from the base.
Fl. yellow.

2622. *Oryctanthus cordifolius* (Poebl.) Urban? Loranthaceae

Bruces, on *Acacia Farnesiana*

2623. *Phthirusa piriifolia* (H.B.K.) Seidl. Loranthaceae

Bruces, on *Acacia Farnesiana*.

2624. *Piper cordulatum* C. DC.

Piperaceae

Bruces, in forests. Treelet or shrub, 1-3 m high.

2625 *Miconia lacera* (Bonpl.) Naud. Melastomataceae

Around Bruces, in sunny places of the clearings, a bush. 2 m high.
Fl. small, pale pink.

2626. *Cupania fulvida* Tr. & Pl.

Sapindaceae

Around Bruces. A small tree or a vine, with abundant fl.
in large racemes. Corolla white.

2627. *Calathea lemostachys* Hooker.

Marantaceae

Around Bruces in forest. A tall plant (1-1.50 m). Leaves
purple below.

2628.

Palmae

Around Bruces in forest. Shooting abundantly from the
base, stem \pm 18 cm. diam at base, and 15 m high or less. Ra-
ceme hanging, pale yellow.

Feb. 2^d

2629. *Rhabdadenia paludosa* Apocynaceae
(Vahl) Miers

Swamp between Corozal & Panama - A vine, fl. white

2630. *Roupala panamensis* Pittier Proteaceae

Swamp betw. Corozal & Panama. A small tree. Fl. abund^t, white

2631. *Gyphocaraylon caudatum* L. Verbenaceae

Swamp between Corozal & Ancon. A treelet or shrub. Fl. white.

2632. *Acrostichum aureum* Filices

Swamp betw. Corozal & Ancon. Gregarious in

2633. *Anacardium occidentale* L. Anacardiaceae

Swamp between Corozal & Ancon, on high ground

2634. *Clidemia rubra* (Aubl.) Mart Melastomaceae

Swamp between Corozal & Ancon, on high ground. Fl. pink. Fr. blue

2635. *Homolepis aturensis* Chase Graminae

Swamp betw. Corozal & Ancon.

2636. *Panicum costaricense* Hackel. Graminae

Swamp betw. Corozal & Ancon.

2637. *Malachra alceifolia* Jacq. Malvaceae

2638. *Miconia minutiflora* Melastomataceae
(HBK.) DC.

2639. *Nectandra pichurum* Lauraceae
(HBK.) Mez

2640. *Melothria trilobata* Cogn. Cucurbitaceae

2641. *Hirtella americana* Aublet. Rosaceae

2642. Compositae

2643. Dilleniaceae

2644. *Pelluciera rhizophorae* Tr. & Pl. Theaceae

Febr. 2^d

Swamp betw. Corozal & Ancon. Fl. yellow.

Swamp betw. Corozal & Ancon. ^{on high ground} Fl. white. A treelet 2-3^m high.

Swamp betw. Corozal & Ancon, on high ground. A small tree, 2-3^m high.

Swamp between Corozal & Ancon, trailing on bushes. Fl. yellow. Fr. almost spherical, \pm 5 cm. diam., gray green with white and dark green variegations

Swamps between Corozal & Ancon. On high ground.

Swamp between Corozal & Ancon. Shrub (herbaceous) 2-3^m high.

Swamp between Corozal & Ancon. A vine. Fl. yellow.

Swamp between Corozal & Ancon. Small tree, 5 m. high. Fl. pinkish white.

2645. *Dicliptera assurgens* (L.) Less. Acanthaceae

2646. *Baccharis* Compositae

2647. *Oeschynomene sensitiva* Sw. Leguminosae

2648. *Limnanthemum Humboldtianum* Griseb. Gentianaceae

2649. Orchidaceae

2650. *Syntherisma sanguinalis* Dulac. Gramin.

2651. *Lolicholus phaseoloides* (D.C.) O. Kuntze Leguminosae

2652. *Citaria arborescens* Ait. Leguminosae

Febr. 2^d

Between Corozal & Panama, on high ground. Fl. incarnate.

Between Corozal & Panama, trailing on bushes.

Between Corozal & Panama. A half-woody treelet, spreading, 2^m high. Fl. yellow.

Between Corozal & Panama, in ponds. Fl. white.

Mrs Rousseau. Sep. & pet. greenish white, with faint green streaks. Sack reddish at bottom, elegantly ^{green} veined on slightly fringed on wings, with a paler, longly fringed Labium.

Along roads at Culebra, not common.

Febr. 5th 1911.

Around Agua Clara Reservoir near Gatun. Trailing. Fl. yellow.

Around Agua Clara Reservoir near Gatun. A vine. See next.

2653.

Solanaceae

Febr. 5th 1911.

Around Agua Clara Reservoir near Gatun. A shrub. 1^m 1.50 high.
Fl. white. Plant with a fetid odor.

2654. *Blechnum Brownei* Juss.

Oleaceae

Around Agua Clara Reservoir near Gatun, in clearings. Fl. pale purple.

Blechnum costaricense Oerst. Bot. Ecl. I-16-422655. *Miconia argentea* DC.

Melastomaceae

Papelillo (Arraiján). Dos Baras (Gatun).

Around Agua Clara Reservoir near Gatun. A tree 25-30cm. in diam.,
15-20m. high. Trunk straight, crown rather flat and spreading;
bark grayish white. Fl. white.

2656. *Erythrina costaricensis* Micheli

Leguminosae

Around Agua Clara Reservoir near Gatun. Shrub with thick stock, 1^m high.

= n° 2287. (See III. 4648. also *Gurania* (Lag.)2657. *Gurania coccinea* Cogn Cucurbitaceae

Around Agua Clara Reservoir near Gatun. Trailing on two bushes.
Fl. scarlet.

2658

Bromeliaceae

Around Agua Clara Reservoir near Gatun. Epiphytic.

2659. *Chamaedorea*

Palmae

Around Agua Clara Reservoir near Gatun. 3m. high. Grows in
clusters of many (10-20) stems to the stock.

2660.

Anonaceae

Around Agua Clara Reservoir near Gatun. A little tree, with straight
trunk, about 4m. high. Fl. greenish yellow.

2661. *Piper pubistipulum* C. St.

Piperaceae

Febr. 5th 1911.

Around Agua Clara Reservoir near Gatun. 1 m. high.

2662. *Peperomia*

Piperaceae

Around Agua Clara Reservoir near Gatun. Epiphytic.

2663. *Stenospermaticum*

Araceae

Around Agua Clara Reservoir near Gatun. Epiphytic. Spadix white

2664. *Rhodospathia*?

Araceae

Around Agua Clara Reservoir near Gatun. Epiphytic.

2665. *Asplenium serratum*

Filices

Around Agua Clara Reservoir near Gatun. Epiphytic. Forms rounded tufts.

2666. *Strychnos toxifera* Benth

Loganiaceae

Around Agua Clara Reservoir near Gatun. A woody vine. Corolla white or pale yellow, hairy.

2667. *Gurania*

Cucurbitaceae

Around Agua Clara Reservoir near Gatun. Fl. only. Vine on high trees. Leaves merely lobate on the margin (?).

2668. *Passiflora vitifolia* H.B.K.

Passifloraceae

Febr. 6th 1911

Along Masanti R., trailing on ground

2669. *Calopogonium caeruleum* (Benth.) Hemsl. Leguminosae

2670. *Eupatorium Sinclairi* Benth. Compositae

2671. *Amarantaceae*

2672. *Triplaris* Polygonaceae

2673. *Cecropia mexicana macrostachya* Don. Smith - Moraceae.

2674. *Inga Ruiziana* Don. Leguminosae

2675. *Herrania*

2676. *Jatropha urens* L. v. *genuina* Muell. Arg. Euphorbiaceae

Febr. 6th

Along Masambi R., trailing on bushes. Fl. pale blue.

Along Masambi R., on talus of road. Fl. pale purple.

Along Masambi R., creeping on bushes. Fl. white.

Along Masambi R., a small tree. Fl. greenish. Myrmecophilous.

Along Masambi R.; stem slender.

Along Masambi R., a medium sized tree.

Along Masambi R., Fl. in clusters of 4-5, several together; calyx 3 parted.

Around buloh in waste places. Fl. white.

2677. *Sporoclea trifida* (HBK.) Don

2678. *Pasiflora foetida* L.

Pasifloraceae

2679. *Anthurium*

Araceae

2680. *Hirtella triandra* Sw.

Rosaceae

2681. *Blechnum panamense* Linden
Type coll. Reput sp. nov. Fedde 12:424. 1913.

Acanthaceae

2682. *Orthocladia variflora* Beauv.

Gramineae

2683. *Bulbophyllum sordidum* Lindl.

Orchidaceae

2684. *Calathea*

Feb. 8th 1911.

Around Frijoles C. Z. Fl. pink; f. 3-partite small.

Around Frijoles. Fl. white with purple streaks.

Around Frijoles on mango tree. F. 1.50 long, ^{50 cm. broad, with long} glaucous shiny green above, pale green below. Petiole 12-15 cm. long. Peduncle 60-65 cm. long. ^{5 cm. broad at base} Spathe 50-58 cm. long, green. Spadix brownish-grey, 50-60 cm. long.

Around Frijoles. A small tree, \pm 5 m. high, with a flat crown. Petals pinkish white.

Around Frijoles on river banks. Fl. purple.

Around Frijoles on low ground.

Around Frijoles, epiphytic.

Around Frijoles, along river.

2685. *Heliconia*

2686. *Olyra latifolia* L.

Gynerinae

2687. *Idontonema flagellum* (Verst.) O.K.

Acanthaceae

2688. *Cassia undulata* Benth.

Leguminosae

2689. *Sparganophorus Vaillantii* Gaertn.

Compositae

2690. *Anoda hastata* Cav.

Malvaceae

2691. *Phaseolus adenanthus* Mey

Leguminosae

2692. *Coccoloba coccinea* Aubl.

Combretaceae

Febr. 8th

Around Frijoles - Fl. scarlet red, few.

Around Frijoles in woods.

Around Frijoles, outskirts of woods. Fl. scarlet.

Around Frijoles, in bushes. 2-4m. high - Fl. yellow - Fl. nodding.

Around Frijoles, on banks of river - Fl. white.

Around Frijoles, in waste places.

Around Frijoles, hanging on bushes. Fl. white or yellow and purple.

Along river at Frijoles, a vine. Calyx greenish, corolla pale red, style yellowish, filament carmine; anthers dark purple.

2693. *Homalium* (Racouba)

2694. *Casahua* Guayacan Hemsl.

Bignoniaceae

2695. *Cratogeomys panamensis* Mull. Arg.
Sanquillo

Euphorbiaceae

2696. *Inga* X

Leguminosae

2697. *Bittneria carthagenensis* Jacq.

Sterculiaceae

2698. *Anthurium Schlechtendalii* Kunth.

2699. *Mimusops darinensis* Pittier, sp. nov. Sapotaceae
n.v. Nispero.

2700. *Alcalypha macrostachya* Jacq.

Euphorbiaceae

Febr. 8th

Trujillo, on river bank. A large tree. Leaves ovate-lanceolate, shiny above, subglaucous beneath. Fl. in raceme. Sepals 6, corolla ^{white} 6, 6 fascicles of 3 stamens separated by a scale. Styles 3(?).

Febr. 9th 1911.

Matachin, on the hill. A tree 30-35^m high, with straight trunk, \pm 60 cm. diam. at base, and a whitish-gray, almost smooth bark. Fl. yellow.

On the hills around Gorgona; a small tree.

On the hills around Gorgona; a small tree.

On the hills around Gorgona, a vine.

Mrs Gaillard - See description.

Diam. of trunk. 25-30 cm.; bark \pm 1 cm. thick, fragrant, not sulcate.

Febr. 11th 1911.

Hills above R. Grande, trail to Arvaján. Small tree \pm 3 m. high; bracts caduous, fringed with purple.

2701. *Viguiera* (*Viguiera*) *canescens* H. B. K. Compositae
Lengua de buey.

2702. *Hirtella racemosa* Lam. = *H. americana* Rosaceae
Camaronillo

2703. *Chevetia nitida* (HBK.) DC. Apocynaceae

2703^b *Stigmaphyllon ellipticum* (HBK.) Juss. Malpighiaceae

2704. *Sponoea Morelii* Duch. & Walp. Convolvulac.
Batatilla morada.

2705. *Stachytarpheta caryocarpus* (Rich.) Verbenaceae
Verbena (med.) Vahl

2706. *Rolandra (argentea) fruticosa* (L.) O. Kuntz. Rubiaceae
Compositae

2707. *Phyllthesia lisianthoides* (Grisb.) Ktze Gentianaceae
Canchalagua (med.).

2708. *Hirtella mollicoma* H. B. K. Rosaceae
Garrapata

Febr. 11, 1911

Hills above R. Grande, on trail to Arraijan. Treelet 3-4m. high. Fl.
pinkish white, very odorous.

Hills above R. Grande, on trail to Arraijan. Shrub, fl. pink.

Hills above R. Grande, on trail to Arraijan. Shrub 1-2m. high. Fl.
yellow. Fruit ovoid, bright scarlet.

Hills above R. Grande, on trail to Arraijan. A vine. Fl. ^{dark} purplish inside.
purplish around. Entirely glabrous.

Hills above R. Grande, watershed of R. Mandingo. Fl. small, purplish
pink.

Valley of R. Mandingo. Fl.

R. Mandingo Valley. Fl. pale pink.

Rio Mandingo Valley. A shrub.

2709. *Microtea debilis* Sw.

Phytolaccaceae

Feb. 11th 1901.
Pedro Vidal, valley of Mandingo. Creeping around house. Fl. greenish.

2710. *Zuelania Rousseviae* Pitt.

Flacourtiaceae

Slope above Pedro Vidal, valley of Mandingo. A deciduous tree. Leaves opposed.
Infl. corymbose (Sep. 3. Pet. 2.) St. ∞. Pist 1: ovary superior, 3- (?) celled. Calyx persistent.
Fruit pruiniform.

2711. *Phthirusa piriifolia* (H. B. K.) Eichl.

Loranthaceae

On n° 2710.

2712. *Eryngium foetidum* L.
Culantro

Umbelliferae

Around Pedro Vidal, Mandingo Valley.

2713. *Lida rhombifolia* L.

Malvaceae

Slopes above Pedro Vidal, Mandingo Valley, along trail. Cor. yellow
small.

2714. *Lida glutinosa* Cav.

Malvaceae

Slopes above Pedro Vidal, Mandingo Valley, in clearings. Fl. white.
Prostrate

2715.

Araceae

Slopes above Pedro Vidal, Mandingo Valley, in wood. Spathe greenish
yellow. Spadix adhering. Fruits large, orange-yellow, 1-seeded. Seeds
blackish, germinating in spathe.

2716. *Dichaea panamensis* Lindl.

Orchidaceae

On tree trunks along Mandingo (?) creek. Fl. greenish.

2717. *Scaphyglottis unguiculata* Schtr.

Orchidaceae

Feb. 11th
On trees (near base) along Mandingo(?) creek, near Pedro Vidal. Fl.
small, white. 4 pollinies.

2718. *Cycas circinnalis*

= 6. List Mason

Cycadaceae

Feb. 13th 1911

Hospital Park at Ancon. Said to be a native of Trinidad.

2719. *Cycas revoluta*

-9.

Cycadaceae

Hospital Grounds at Ancon.

2720. *Xora? Chivaistesii* Hooker.

= 10 - Lila

Rubiaceae

Hospital Grounds at Ancon; a shrub. Fl. white.
Exotic

2721 = *Polypodium polypodioides*

= 3

Filices.

Hospital Grounds at Ancon, climbing on *Cycas* trunk.

2722. *Brownea Arizya* Benth.

= 8

Leguminosae

Hospital Ground at Ancon. A tree, ± 5m. high with a rounded crown.
Fl. scarlet pink.

2723. *Allamanda cathartica* L.

Apocynaceae

Hospital Grounds at Ancon. A shrub, fl. yellow.

2724. *Annona muricata* L.

Annonaceae

Hospital Grounds at Ancon.

2725. *Psidium guajava* L.

Myrtaceae

Febr. 13, 1911.

Hospital Grounds at Ancon.

2726. *Botriobax panamense* Pittier.

Bombacaceae

Hospital Grounds at Ancon.

= 19.

2727. *Gleichenia*

Filices

Hospital Grounds at Ancon, climbing.

= 16.

2728. *Ficus cogbana* Mig.

Moraceae

Hospital Grounds at Ancon. A low tree with rounded crown.

= 25

2729. *Spindias purpurea* L.

Anacardiaceae

Hospital Grounds at Ancon. A small tree, fl. purple.

2730. *Coccoloba*

Polygmaceae

Hospital Grounds at Ancon. A mid-sized tree. Fl. greenish

2731. *Lühea platyptala* A. Rich.

Ciliaceae

Hospital Grounds at Ancon. A tree 25-30 m. high. Large white flowers.

= 28.

2732. *Lühea Seemannii* Pl. & Br.

Ciliaceae

Hospital Grounds at Ancon. A tree 20-25 m. high. Fl. rather small, white.

= 30

2733. *Croton Neotandra picturum* (HBK.) Mez
= 33.

2734. *Cupania fulvida* Tr. & Pl. Sapindaceae
= 34

2735. *Vismia*
= 36.

2736. *Chenopodium erecta* (Benth.) C. Andr. Amaranthaceae
= 39

2737. *Phyllanthus nivosus* Benth. Euphorbiaceae

2738. *Jasminum ~~argenteum~~ sambac* L.
= 43

2739. *Clerodendron ? thomsonae* Balf.
= 41

2740. *Graptophyllum pictum* (L.) Merr. Amaranthaceae
= 43

Febr. 13. 1911

Hospital Grounds at Ancon. A small tree with elongated crown.

Hospital Grounds at Ancon. A small tree. Fl. white.

Hospital Grounds at Ancon. A ^{small tree} ~~shrub~~. Fl. ^{white or yellowish} ~~zygomorph, purplish~~
~~blue chroma, to white.~~

Hospital Grounds at Ancon. A shrub. Corolla large; zygomorph.
tube white, crown purplish blue. Cultivated

Hospital Grounds at Ancon. A shrub with variegated leaves
and greenish, binisemate flowers - Exotic

Hospital Grounds at Ancon. A small, ornamental tree, with
white, oddness flowers.

Hospital Grounds at Ancon. A vine with white ^{or purplish} bracts and
scarlet corollas

Hospital Grounds at Ancon. A shrub with variegated leaves and
magenta flowers.

2741. *Rheo*
= 45

Commelynaceae

Febr. 14, 1911.

Hospital Grounds at Ancon. Fl. blanches in purple bracts.

2742 *Eugenia acapulcensis* Steud. *Myrtaceae*
= 49 = Paico

Hospital Grounds at Ancon. Fl. small, greenish. Long filaments
Berry orange-yellow.

2743. *Clitoria ternata* L.

Leguminosae

Hospital Grounds at Ancon. Pinum-like, ultramarine corolla
bracts but subspontaneous.

2744. *Erythrina glauca* Willd.
n. v. Maquay

Papilionaceae

Hospital Grounds at Ancon. Fruit of no 2571.

2745. *Thespesia populnea*.

Malvaceae

Hospital Grounds at Ancon. Fl. first yellow, then purple.

2746. *Gustavia superba* Berg.
Membrillo

Lecythidaceae

Hospital Grounds at Ancon. A small tree. Pet. 8; yellow at base,
pink and white punctulated at tip. Stamens yellow at base, pink at
end. Fl. 13-15 cm. in diam.

2747. *Inga globulifera* Benth.
= 61

Mimosaceae

Hospital Grounds at Ancon. A tree. Fl. white.

2748. *Dioscorea Contrajerva* L.

Moraceae

Hospital Grounds at Ancon.

2749. *Machaerium purpurascens* Pittier Leguminosae
= 66

2750 *Phoebe elongata* (Vahl) Lauraceae
Nees

2751. *Plurysa* Urticaceae

2752. *Monstera Friedrichskalii* Araceae
= 68

2753. *Chysanolaena agrostis* Graminae
Bambusa Metake ?

2754. *Ipomoea* Convolvulaceae
-70

2755. Violaceae

2756. *Moringa pterygosperma*

14

Hospital Grounds at Ancon. A ^{spring} vine. Fl. small, purple.

Hospital Grounds at Ancon. A middle-sized or small tree. Fl. white.

Hospital Grounds at Ancon. A weed.

Hospital Grounds at Ancon. Epiphytic.

Hospital Ground at Ancon. Cultivated.

Hospital Grounds at Ancon. Cultivated. Fl. bright yellow

Hospital Grounds at Ancon. A weed. Fl. small, pale purple

Hospital Grounds at Ancon. A small tree. Cultivated.

Febr. 14, 1911

2757. *Eclipta trifida* Jacq. Apocynaceae Hospital Grounds at Ancon. a vine. Corolla greenish white
2758. *Pamplora lunata* Willd. Pamphoraceae Hospital Grounds at Ancon. Leaves only.
2759. *Euphorbia hypericifolia* L. Euphorbiaceae Hospital Grounds at Ancon. A weed.
2760. *Euphorbia pilulifera* L. Euphorbiaceae Hospital Ground at Ancon. A weed.
2761. *Phyllanthus carolinensis* Walt. Euphorbiaceae Hospital Ground at Ancon. A weed.
2762. *Jussiaea* Hospital Ground at Ancon. A weed. Fl. yellow, \pm 3 cm. diam.
2763. *Bradburya pubescens* (Benth.) Ktze. Leguminosae Hospital Grounds at Ancon. Vine. Corolla pale yellow outside, purple inside.
2764. *Phaseolus adenanthus* Mey. Leguminosae Hospital Grounds at Ancon. Viny. corolla yellow, with purple spots.

2765. *Surientia*

Cedrelaceae

Forests of Juan Diaz near Panama. Jan. 25th 1911. Fruit only. Seems to be more elongate than the Belize species.

2766.

Fungus

R.R. relocation between Gorgona and Gatun, on an old tree trunk.

2767. *Cabeuia pentaphylla* (Juss.) Hemsl. Bignoniaceae
Rolle de savana

Culebra. A tree, about 45 cm. in diam. and trunk 4 m. high.
Crown spreading. Fl. pale purple.

2768. *Rynchospora cephalotes* (L.) Vahl.

Cyperaceae

Culebra, in low places. A common plant of the clayey soils.

2769. *Bombax Fendleri* (Seemann).
Cedro espinoso

Bombacaceae

Culebra, in low places along the railroad. Trunk spiny, straight.
Tree \pm 20 m. high. Fl. small, white.

2770 *Salacia praecelsa* (Miers) Standl

Febr. 17, 1911

Rio Indio de Gatun. A vine. Fl. greenish.

2771 *Hiraea faginea* (Sw.) Naud. Malpighiaceae

R. Indio de Gatun. A vine or shrub. Fl. yellow.

2772 *Tetrathylacium phagoceri* Standl. Flacourtiaceae

R. Indio de Gatun. A small tree.

2773. *Cydista aequinoctialis* Miers.

Bignoniaceae

Febr. 17th 1911.

Rio Indio de Gatun. A vine with pale pink blossoms.

2774

Apoynaceae
↓

Rio Indio de Gatun. A milky vine, characteristic of low swamps along tide water. Fl. white, tinged with yellow in tube and pink in lobes.

2775 *Nectandra laurel* Kl. & Kart. Lauraceae

R. Indio de Gatun. Small tree. Fl. white.

2776 *Phyllanthus distichus* (L.) Muell-Arg. Euphorbiaceae

R. Indio de Gatun, near the mouth. An spontaneous?

2777. *Pachira aquatica* Aublet.

Bombacaceae

R. Indio de Gatun. A small tree. Fl. very large, pinkish. Fr. and seeds very large, the former oblong-fusiform.

2778. *Suriana suberosa* Stuhl. Cucurbitaceae

R. Indio de Gatun. ^{A vine} Fl. on stem. (Coll. by E. A. Goldman; alcohol.)

2779. *Anthurium*

Araceae

R. Indio de Gatun. Epiphytic.

2780. *Bactris* *major* Jacq. Palma
Lata

R. Indio de Gatun. Grows in clumps, along streams. Fr. black at maturity and edible. Stems 2-3 m. high, spiny.

2781. *Montrichardia arborescens* (L.) Schott. *Utracaceae*

- Castaño. La fruta se come cocida. Tiene el sabor de la fruta de pan.

2782. *Enallagma curvifolium* (L.) H. B. *Bigoniaceae*
Totumito

2783. *Faramea occidentalis* (L.) A. Rich. *Rubiaceae*
Huerito. Wood very hard!

2784. *Hirtella triandra* Sw. *Rosaceae*

2785. *Coccoloba padiformis* Merwin

2786. *Melastomataceae*

2787. *Gurania coccinea* Cogn. *Cucurbitaceae*

2788. *Peperomia caudulilimba* C. DC. *Piperaceae*

Febr. 17th 1911

Rio Indio de Gatun. Along undulated shores 1.50-2.50 high. Erect. Spadix axillar. Inflorescence ovoid or rounded, yellow green when ripe.

Rio Indio de Gatun, in tide water. A small tree, usually with de-
glutted, \pm horizontal stems. Fl. greenish. Fr. dark green.

Rio Indio de Gatun. A small tree. Fl. white

Rio Indio de Gatun. A shrub. Infl. few flowered. Fl. pinkish white.

Rio Indio de Gatun. A tree, 20m. high, branching from the base. Fl. pink.

R. Indio de Gatun. A shrub. Fl. white.

R. Indio de Gatun. Climbing on low trees. Fl. orange-red.

R. Indio de Gatun. Epiphytic

2789- *Peperomia panamensis* C. DC.

Piperaceae

Febr. 17th
Rio Indio de Gatun. Epiphytic.

2790- *Piper*

Piperaceae

Rio Indio de Gatun. A small tree, 2.50 high., in high forest.

2791- *Piper auritum* H. B. K.

Piperaceae

Rio Indio de Gatun. A small tree, 3-4m. high, in ^{sunny} growth.

2791^a " *lucigaudens* C. DC.

Araceae

2792- *Anthurium*

Rio Indio de Gatun. Epiphytic in high forest. (Notes)

2793- *Anthurium lacumense* Engl.

Araceae

Rio Indio de Gatun. Epiphytic in high forest. Spadix long-stipitate/stip.
8-10cm). Spathe \pm 13cm. long, oblique amplexicaule, brisquely ^{apiculate} ~~stipitate~~. Spadix
thick (18-20mm at base), purple

2794- *Philodendron* (not determin.).

Araceae

R. Indio de Gatun in forest. Scandens.

2795- *Anthurium*

Araceae

R. Indio de Gatun in Forest. Scandens. Infl. shorter than petiole. Spathe
ovate lanceolate, 7cm. long, 2cm. broad at base. Spadix sessile, yellow, 8cm. long.

2796- *Anthurium acutangulum* Engl.

Araceae

R. Indio de Gatun, in forest. Not scandens.

2797. *Anthurium lacumense* Engl.

2798. *Anthurium*

2799. *Anthurium*

2800. *Peperomia obtusifolia* L. Dietr. forma A¹, C. DC. Piperaceae

2801. *Anthurium crassinervium* (Jacq.) Schott. Araceae
= 2679.

2802. *Ornithocephalus elegans* Rehb. f.

Orchidaceae

2803. *Scaphosepalum panamense* Schltr. sp. nov.

Orchidaceae

2804.

Flacourtiaceae

2805. *Salacia praeculsa* (Miers) Standl.

Febr. 17, 1911.

Rio Indio near Gatun. Epiphytic, not scandens. Young spadix purple.
Spadix long stipitate.

Rio Indio near Gatun. Epiphytic. Spathe and spadix purple.

Rio Indio near Gatun. Epiphytic.

Rio Indio near Gatun. Epiphytic.

Rio Indio de Gatun. Epiphytic.

Rio Indio de Gatun. Epiphytic. Petals greenish white, column dark green.

Rio Indio de Gatun. Epiphytic. Corolla green, with purplish maculae.

Along Chagres below Gatun. A tree, 25-30 m. high. Fl. white, bad smell.

Febr.

17, 1911.

2806. *Annona*

Annonaceae

Along Chagres below Gatun. A small tree.

2807. *Miconia impetolaris* (Sw.) Don *Melastomataceae*

Along Chagres below Gatun.

2808. *Pithecolobium chagrense* Pittier *Mimosaceae*

Along Chagres below Gatun. Fl. pink.

2809. *Codonanthe calcarata* Haust.

Rio Indio de Gatun, hanging from branches

2810. *Guarea parva* C. D. C. sp. nov.

Melastomataceae

Rio Indio de Gatun. A small tree, fl. white

2811. *Acalypha diversifolia* Jacq.

Euphorbiaceae

Rio Indio de Gatun. A small tree.

2812. *Luehea Seemannii* Pl. & Gr.

Urticaceae

Along R. Chagres below Gatun. A small tree

2813. *Malouetia panamensis* Hieron. & Small. Arg. *Apocynaceae*

Rio Indio de Gatun. A small tree.

2814. *Pithecolobium Inga rufescens* Benth. Mimosaceae

Empire C. Z. Febr. 17. 1911. (D. D. Gaillard).

2815. *Piper tuberculatum* minus C. Dc. Piperaceae

Hospital Ground at Ancon. A little tree.

2816. *Gonypium*

Febr. 25th 1911

Isla Parida, Chiriqui.

2817. *Lonchocarpus chiricanus* Pittier. Leguminosae

Isla Parida Chiriqui; a small tree. Deciduous?

2818.

Leguminosae

Isla Parida, Chiriqui. A tree, growing on the cliffs. Deciduous!

2819. *Limnecia americana*

Olacaceae

Isla Parida, Chiriqui. A small tree, with perennial foliage.

2820. *Cordia alba* Roem. & Schultes

Boraginaceae

Plaza de David, Chiriqui. A middle sized tree. Fl. white.

n.v. goma. Seeds used as glue.

P

2821. *Ficus isophlebia* Standley

Moraceae

Plaza de David, Chiriqui. A middle sized tree.

2822. *Ficus oerstediana* Mez.

Moraceae

Febr. 25th 1911.
Plaza de David; a middle sized tree

2823. *Ficus oerstediana* Mez.

Moraceae

May be = 2822.

Plaza de David; a middle sized tree

2824. *Cabunamontana grandiflora* Jacq.

Apocynaceae

Plaza de David. A shrub or treelet. Fl. yellow.

2825. *Cabunamontana amygdalifolia* Jacq.

Apocynaceae

Plaza de David. A shrub. Fl. white.

2826. *Ficus costaricana* (Lam.) Mez.

Moraceae

Plaza de David. A tree.

2827. *Posoqueria latifolia* R. & S.

Rubiaceae

Plaza de David. A small tree.

2828. A Fungus on a Lauracea.

Plaza de David. White. Every fruit infected

2829. *Piper auritum* H.B.K.

Piperaceae

David. Cultivated in garden.

Hoja de pasmo

2830. *Lacistema*

Febr. 27, 1911

Along a streamlet, near David. A small tree, 2-3 m. high.

2831.

Placuntriaceae

Along a streamlet, near David. A small tree or a bush. Fl. greenish.

2832. *Piper hirtellipetiolum* C. DC.

Piperaceae

Along a streamlet near David. A small, pyramidal tree, 1.5-2 m. high.

2833. *Gloanea quadrivalvis*

Terapielo. A good Orchid & Bromeliad bearer

Along a streamlet near David. A large tree, with low trunk & spreading crown.

2834 *Prestonia macrocarpa* Nees. Apocynaceae

Along a streamlet near David. A vine. Throat of corolla raised, yellow; base of lobes purplish white, upper half densely purple streaked; the whole with excepted the latter part greenish white inside.

2835. *Ficus costaricana* (Schum.) Miq.

Moraceae

Around David. A middle sized tree. Fr. yellow when ripe.

2836. *Dieffenbachia Oerstedtii* Schott.
Oto de Lagarto.

Araceae

Along a streamlet near David. Spathe, including adhering spadix orange yellow when ripe. Fruits red.

2837. *Piper davidianum* C. DC.

Piperaceae

Along a streamlet near David. A small, 2m. high tree.

2838. *Trichilia chiriquina* L.D.C. sp. n. Meliaceae

2839. *Tournefortia bicolor* Sw.

2840. *Allophylus psilospermus* Radl. Sapindaceae

2841. *Licania arborea*

Rasca. Wood not used. Tree seems common along streams.

2842.

Rubiaceae

2843. *Solanum Lowell-Smithii* Coult.

2844. *Anthurium*

2845. *Epidendrum latilabre* Lindl. Orchidaceae

Febr. 27, 1911.

Along a streamlet near David. A small tree. Fl. white

Along a streamlet near David. A viny shrub; fl. white.

Along a streamlet near David. A small tree. Fl. greenish white.

Along a streamlet near David. A frondose, spreading tree.

Around David; a shrub. Fl. yellowish white.

Around David; a prostrate viny shrub.

Along Rio David, near town, epiphytic.

Along R. David, near town; epiphytic.

2846.

Myrtaceae

Sabana de El Ruiteno near David. Characteristic of sabanas edges. A treelet or a shrub (in exposed situations). Fl. greenish. white - Febr. 28, 1911.

March 2^d 1911.

2847. ? *Galium mexicanum* H. B. K.

Rubiaceae

Around Boquete. The common weed. No flowers. Very hispid.

2848. *Euphorbia adenoptera* Berol.

Euphorbiaceae

Around Boquete. Plant reddish, prostrate, common in pastures.

2849. *Relbunium hypocarpium* Hemsl.

Rubiaceae

Around Boquete. Seeds red. A common weed.

2850

Violaceae?

Around Boquete. Fl. pale lilac.

2851. *Castilleja*

Around Boquete, in pastures.

2852. *Richardia scabra* L.

Rubiaceae

Around Boquete, a weed, not common. Fl. white, with pinkish tinge.

2853. *Borreria tenella* (H. B. K.) R. & S.

Rubiaceae

Around Boquete.

22, 2854. *Clusia*

2 2855.

Compositae

March 2^d 1911

Around El Boquete. A tree. Fl. rather small, yellowish white.

21

2 2856. ~~Eupatorium~~ *Eupatorium* *pycnocephalum* Less.

Compositae

Around El Boquete. A trailing shrub; fl. white.

21

2 2857. ~~Myrsine~~ *Rapanea ferruginea* (R. & P.) M.
28. Manglillo

Around El Boquete. A small tree, with round crown. Fl. greenish.

2 2858. *Hippocratea celastroides* HBK. Lauraceae
21 Palo de raton.

Around El Boquete, a small tree, common in pastures. Fl. greenish.

2 2859. *Eupatorium*

Compositae

Around El Boquete. Common in pastures. Fl. white.

21

2 2860 *Tibouchina serotina*
(Triana) Cogn.

Meleostomata

Around El Boquete, in ^{half} shaded places along hedges. Fl. pink.

2 2861. *Monochaetum* *alpestre* Naud. Meleostomata

Around El Boquete, in pastures and swampy ground. Fl. pink.

2

March 2^d 1911.

Around El Boquete. Stems thick, rigid. Fl. pinkish white. In pastures.

Around El Boquete. Prostrate or ascending. Fl. white.

Around El Boquete, in pastures. Fl. purplish blue.

Around El Boquete, in pastures. Fl. white.

Around El Boquete, in shady places. Prostrate, fl. blue.

Around El Boquete, common.

Around El Boquete; in patches in pastures.

Around El Boquete, on banks of rivers, etc.

2862. *Hyptis lappacea* Benth

2863. *Hyptis lantanifolia* Poir

2864. *Marsypianthes chamaedrys* (Vahl) Kuntze

2865. *Stevia* Compositae

2866. *Tontanea guianensis* Aubl. Rubiaceae

2867. Compositae

2868. Melastomataceae

2869. *Spigelia*

March

2^d, 1911

2 2870. *Erechtites hieracifolia* (L.) Raf. Compositae

Around El Boquete. In pastures

2 2871. *Eupatorium daleoides* (D.C.) Hemsl. Compositae

Around El Boquete. A shrub or treelet, fl. white.

2 2872. *Anthurium* Araceae

Around El Boquete, on rocky banks along river.

2 2873. *Baccharis* Compositae
Sta Maria chiquito

Around El Boquete, on edge of forests.

2 2874. *Saurauia*

Around El Boquete, on edge of forests.

2 2875. *Loasa* Loasaceae

Around El Boquete, along river. Petals & stamens white. Crown (?) red.

2 2876. *Orthostemma Campanulare* Melastomataceae
(Naud.) Triana

Around El Boquete, in bushes.

2 2877. *Monnina* Polygalaceae

Around El Boquete, on edge of forest. Larvae yellow, wings purple.

22878

Urticaceae

March 22, 1911

Around El Boquete, on edge of forest.

22879. *Bocconia frutescens*

Papaveraceae

Around El Boquete, in clearings and pastures.

22880. *Sapum*
Olivo

Euphorbiaceae

Around El Boquete.

22881.

Urticaceae

Around El Boquete. A shrub. Fl. pale pink.

22882. *Struthanthus venetus* (H.B.K.) Bickl. Loranthaceae

Around El Boquete, trailing on bushes along river.

22883. *Euphea infundibulum* Koehne Lythraceae

Around El Boquete. Fl. fine red.

22884. *Loeselia glandulosa conglomerata* (H.B.K.) Brand. Polemoniaceae

Around El Boquete, in pastures. Fl. purplish blue.

22885. *Abutilon giganteum* (Jacq.) Presl. Malvaceae

Around El Boquete, in bushes. Fl. shrub 1m-1.50 high. Fl. dirty yellow.

2 2886. *Browallia demissa* L.

Solanaceae

March 2^d, 1911

Around El Boquete, in cultivated places and pastures. fl. large, deep purple.

2 2887. *Jussieua*

Around El Boquete, in humid gravel along river.

2 2888. *Buddleia americana* L.
Tabaquillo

Loganiaceae

Around El Boquete, along river.

2 2889. *Ficus padifolia* H.B.K.

Moraceae

Around El Boquete, a tree, 8-12 m. high.

2 2890. *Lopezia*

Around El Boquete, in shady places. fl. pink.

2 2891. *Polygala paniculata* L.

Polygalaceae

Around El Boquete, in pastures

2 2892. *Polygala paniculata* L.

Polygalaceae

Around El Boquete, in pastures

2 2893. *Polygala hygrophila* H.B.K.

Polygalaceae

Around El Boquete, in pastures

2 2894-

Caryophyllaceae

March 2^d 1911

Around El Boquete, in pastures.

2 2895. *Solanum aculeatissimum* Jacq.

Around El Boquete, in clearings. Very spinose. Fl. pale yellow. Fr. white.

2 2896. *Begonia stigmosa* Lindl.

Begoniaceae

Around El Boquete, in shady forest.

2 2897. *Mauria Birringo* (L.) Tulame.

Anacardiaceae

Around El Boquete, a small tree. Bark greenish.

Zorillo Colorado

2 2898. *Piper*

Piperaceae

Around El Boquete, in forest

2 2899. *Piper Chamissonis rubellibracteam* C. DC. Piperaceae

Around El Boquete, in forest.

2 2900. *Eupatorium*

Compositae

Around El Boquete, in clearings.

2 2901

Compositae

Around El Boquete, in clearings. Trailing

March 22 1911.

- | | | |
|---|----------------|---|
| 2 2902 | Urticaceae | Around El Boquete, a bushy shrub, \pm 2m. high. |
| 2 2903 | Compositae | Around El Boquete, in pastures. |
| 2 2904 | Compositae | Around El Boquete, in pastures |
| 2 2905 | Compositae | Around El Boquete, in pastures |
| 2 2906. <i>Brechites hieracifolia</i> (L.) Raf. | Compositae | Around El Boquete, in pastures |
| 2 2907. <i>Solanum torvum</i> Sw. | | Around El Boquete, in clearings. A shrub, woody, 2m. high. Fl. large, white |
| 2 2908. <i>Ipomoea</i> | Convolvulaceae | Around El Boquete, trailing on bushes. |
| 2 2909. <i>Ipomoea</i> | | Around El Boquete, in clearings. |

March 3^d 1911

Around El Boquete, in pastures. Fl. aruse blue.

2910. *Salvia menthiformis* Fern.

2911. *Acalypha*?
Arragon

Myrtaceae

Around El Boquete, a small tree in pasture. Fl. white, hairy inside (?).

2912. *Acalypha alopecuroides* Jacq.

Euphorbiaceae

Around El Boquete, along hedges.

2913. *Piper Peperomia pasuicola*.
Hinojelo

Around El Boquete, a low bush in pastures.

2914.

Scrophulariaceae

Around El Boquete, a fleshy herb forming bushes, \pm 1 m. high. Fl. white.

2915. *Lamoureaia futhurezii*

2915^a *Peperomia pasuicola* C. Hb.

Piperaceae

Around El Boquete, in pastures along river.

2916. *Acalypha*
Berraquillo

Euphorbiaceae

Around El Boquete, on edge of pastures, a treelet with bent stems.

2917. *Rondeletia amoena* Hemsl.

Rubiaceae

Around El Boquete, a shrub or treelet. Fl. pinkish white.

March 3^d

2918. *Cacara crosa* (L.) Kunze

Leguminosae

Around El Boquete, a vine trailing on bushes. Fl. purplish blue.

2919

Commelinaceae

Around El Boquete, in shady forest. Fl. white.

2920. *Pridium guajava* L.

Myrtaceae

Around El Boquete. A small tree in pastures.

2921. *Peperomia*

Around El Boquete, on tree trunks. Leaves striped with purple bands.

2922. *Geonoma*
Palma verde

Palmae

Around El Boquete, in forest. Trunk \pm 3 m. Internodes varying from 2 cm. to \pm 30 cm.

2923. *Ficus padifolia* H. B. K.
Higo

Moraceae

Around El Boquete, on forest edges. Fruits rather large, yellowish green purple dotted. Deciduous!

2924. *Triumfetta speciosa* Seemann
Cañillo (cadillo?)

Tiliaceae

Around El Boquete, in pastures. Fl. fire red.

2925. *Malvaviscus arboreus* Hoanai Baker
Amopola

Malvaceae

Around El Boquete, on forest edges.

March 3^d 1911.

2926. *Lantana camara*
San Rafaelito

Verbenaceae

Around El Boquete, common.

2927. *Croton panamensis* Mull. - Arg.

Euphorbiaceae

Around El Boquete, a tree with flat crown.

Sangrillo. La leche para que no se pique la dentadura. La madera solo para leña.

2928. *Verbesina nicaraguensis* Benth.
Chumiquito

Compositae

Around El Boquete in forest edge. 1.50-2m. high. Fl. white

2929.

Araliaceae

Around El Boquete, a frequent tree in pastures and in forests of 2^d growth

Pavo. Madera se usa para leña.

2930. *Piper chiriquinum* C. DC.

Piperaceae

Around El Boquete, on pasture edges.

2931. *Conostegia xalapensis* (Raupl.) Don
Canillito. Se usa para leña

Around El Boquete. A treelet with white flower.

2932. *Phoradendron undulatum* Eichl.
Lengua de vaca; mata pelo

Loranthaceae

Around el Boquete, hanging from trees.

2933.
Palmo

Araceae

2934

Fungus

round El Boquete

2935

Fungus

round El Boquete

2936. *Heliconia*

round El Boquete, in high forest. Bracts deep red, spikes hanging.

2937. *Phoebe effusa* Meisn.

Lauraceae

round El Boquete, in high forest. A large tree.

Ligua blanco. Madera empleada para construcciones.

2938. *Ulmus mexicana* Pl.

Ulmaceae

round El Boquete, in high forest. A very large tree, up to 1.30 m. in diameter at base; trunk \pm 20 m. high. Total height 30-40 m. Bark gray, scaly.

*Cenizo. Madera usada para construcciones.

2939

Urticaceae

round El Boquete, in shady forest. A treelet 2-4 m. high. Fl. pale pink.

2940. *Piper callibracteam* C. & C.

Piperaceae

round El Boquete, in shady forest. A treelet, 1.50-2 m. high. Strong variation in breadth and consistence of leaf.

2941

Compositae
C.

round El Boquete, in shady forest. A treelet 2-3 m. high, several stems same stock. Fl. white

[Panama continued
1911.]

Plantes avec les fleurs sur les feuilles (phyllodes)

Ruscus }
Semele } Les feuilles sont ici de vrais phyllodes.

Phyllanthus

Phyllonoma

29. 2942. *Saurauia*

Dilleniaceae

March 3^d 1911

Around El Boquete, Chiriquí. A treelet, ramified from the base.
± 30' high.

29. 2943. *Hamelia patens* Jacq.

Rubiaceae

Around El Boquete, in shady forest.

29. 2944. *Styran*?

Sajinillo. Wood used for fuel

Around El Boquete, in hedge. A middle sized tree. Fl. white.

29. 2945. *Eriosema diffusum* (H.B.K.) Dm.

Leguminosae

Around El Boquete, in pastures. Fl. yellow.

29. 2946. *Pridium molle* Bertal.

Guayavito de savana

Around El Boquete, in bushes and savanas. A shrub. Fl. white, fr.
small, green.

29. 2947. *Asclepias curassavica* L.

Asclepiadaceae

Around El Boquete, a common weed.

Marcasá. Las hojas se usan para curar úlceras.

29. 2948

Chiriquí. Excreta una goma que se usa para sanar
quebraduras de huesos.

Around El Boquete, in bushes. A treelet, 2-3m. high.

29. 2949

Convolvutae

Around El Boquete, in bushes. A trailing shrub.

29 2950. *Olegiphila mollis* Kunth Verbenaceae

Corrimiento. Used to cure facial pains caused by cold

29 2951 *Stigmaphyllon ellipticum* Malpighiaceae
(HBK.) Juss.

29 2952 Umbelliferae

29 2953. *Solanum laurifolium* Willd.
Quiebra plato

29 2954. *Centodon Hampeanus* C. M. Maraceae

2954a *Mittenothamnium imbricatum* Gard. "

29 2955. *Rhacopilum tomentosum* (Hedw.) Mitt. Musci
{ *Thuidium minutulum* (Hedw.) Schimp.

29 2956. *Polytrichum Antillarum* Rich. Musci

29 2957 Palmae

March 3^d.

Around Boquete. A shrub in bushes.

Around Boquete. A vine.

Around El Boquete. 2^m high. Fl. greenish yellow.

Around El Boquete. A treelet; fl. pale purple.

Around El Boquete, on steep slopes. Stems single, 2-3^m high.

Around El Boquete, on tree trunks

Around El Boquete, on old trunks. Largest moss seen.

Around El Boquete, in forest. 1-2^m high.

March 4, 1911.

- 29 2958. *Piper goniculatum* Sw. forma d, C.H. Piperaceae Around El Boquete. A treelet 3-4m. high, in shady forest.
- 29 2959. *Solanum torvum* Sw. Solanaceae Around El Boquete, in clearings. Fl. white.
- 29 2960. *Heliopsis lappulthalmoides* (Jacq.) Don. Compositae Around El Boquete, in clearings
- 29 2961. *Serjania rufisepala* Radl. Sapindaceae Around El Boquete, along river, trailing on trees. Fl. yellowish white.
Granadillo negro. Bejico de mucho uso para amarrar.
- 29 2962. *Epidendrum radicans* Jacq. Orchidaceae Around El Boquete, along river. Terrestrial? Fl. fire red.
+ " " *atropurpureum* W
- 29 2963. Leguminosae Around El Boquete, in pastures. Fl. pinkish purple. Trailing.
- 29 2964 Filices Around El Boquete. Epiphytic.
- 29 2965. *Anthurium* Araceae Around El Boquete, Epiphytic or on stones.

March 4th 1911

Around El Boquete, in stony pastures. Fl. purplish pink.

+

Around El Boquete, in stony pastures.

Around El Boquete, in pasture. Fl. yellow.

Around El Boquete. Epiphytic. Corolla purple. Sep. and 2 narrow pet. purplish green. Broad petal conchiform, narrow and adnate to column at base and then broadening into a corolla-like expansion lobate on the margin; the whole petal white outside, lavender purple inside. Column and pollinium white, the latter over 5 mm. long. (Column in alcohol).

Around El Boquete, in shady forest along river. A shrub; fl. yellow.

Around El Boquete, epiphytic in shady forest along river.

Around El Boquete, in shady forest. A shrub. Fl. fire-red.

Around El Boquete, in shady forest. Stems up to 2^m long. Labellum with purple design on white ground.

29 2966 *Stachys costaricensis* Brz. Lamiaceae

29 2967. *Gnaphalium*
Flor de seda

29 2968. *Lysirhynchium*

29 2969. *Trichopilia tortilis* Lindl. Orchidaceae

29 2970. *Oxalis* *Mayonii* Standl.

29 2971. Filices

29 2972. Gesneraceae

29 2973. *Epidendrum floribundum* H. B. K. Orchidaceae

March 4th 1911

Around El Boquete. A small tree.

29 2974. *Fuchsia atrovirens*

29 2975. *Colontonema flagellum* (Vahl.) C. Kuntze. Acanthaceae

Around El Boquete, in shady forest. A shrub. Fl. deep red.

29 2976. *Ardisia compressa* HBK.
Uvita. (Cuenico de C. R.).

Around El Boquete, in shady forest. A treelet 3-5m high. Fl. white

29 2977. *Neurolaena lobata* Compositae
Contra-gavilana

Around El Boquete, along river.

29 2978. *Spiranthes elata* Rich. Orchidaceae

Around El Boquete, in shady forest. Terrestrial, growing in light
humus. Fl. greenish.

29 2979. *Canna silvestris* Roscoe Cannaceae

Around El Boquete, in shady forest. Fl. fire-red.

29 2980. *Peperomia* Piperaceae

Around El Boquete, in shady forest, epiphytic.

29 2981. *Scaphyglottis* Orchidaceae

Around El Boquete, in shady forest, epiphytic.

March 4th 1911

Around El Boquete, in shady forest.

29 2982

Filices

29 2983 - *Justicia glabra* (Vest.) Benth. & Hook. Acanthaceae

Around El Boquete. On stones in shady forest.

29 2984 - *Peperomia*

Piperaceae

Around El Boquete. On stones in shady forest

29 2985 - *Picramnia* *carpintera* Vahl. Simarubaceae

Around El Boquete, in shady forest. A treelet with flat crown.

29 2986

Solanaceae

Around El Boquete, in shady forest. Stem herbaceous, straight and erect, crowned by specimens. Leaves velvety above. Fl. small, white. Fruit like a pepper.

29 2987

Bromeliaceae

Around El Boquete. Epiphytic.

29 2988 - *Odontoglossum cariniferum* Rehb. fil. Orchidaceae

Around El Boquete. Epiphytic. Calyx greenish outside, brown inside. Labellum white, with pink appendages at base. Column yellow inside, the galea pinkish. Spikes ± 2 m. long. All fl. apparently sterile but one

29 2989 - *Pleurothallis dubia* R. Rehb. 2 Gal. Orchidaceae

Around El Boquete. Epiphytic. Fl. small, yellow.

March 4, 1911

29 2990. *Pleurothallis lancipetala* (Rchb.f.) Schltr. Orchidaceae

Around El Boquete. Epiphytic. Fl. small, in unilateral spikes, yellow.

29 2991. *Maillera* Orchidaceae

Around El Boquete. Epiphytic. Calyx whitish outside, yellowish inside. Petals white. Labellum white, with brown spots on margin.

29 2992. *Oncidium megalous* Schltr. Orchidaceae

Around El Boquete. Epiphytic. Most flowers reduced to 4 linear appendages, the others rather large. Labellum pure yellow except base with transverse brown maculi. Antheridium and cap yellow. Calyx also with transverse brown spots.

29 2993. *Santana* Verbenaceae

Around El Boquete, in pastures. Fl. purple.

29 2994. *Symplocos chiriquensis* Pitt. sp. n. Symplocaceae
Camaleon. La madera se usa solo para leña.

Around El Boquete, along river. A tree 50 cm. in diam. & ± 30 m high. Leaves and pink, perfumed flowers at end of branchlets.

29 2995. *Vernonia* (*Viguiera*) *canescens* A.C. Compositae

Around El Boquete, on forest edges. Very odorous. Fl. purplish or pinkish. Sublignous 2-4 m. high.

29 2996. *Mikania gracilis* HBK. Compositae

Around El Boquete, in clearings.

29 2997. *Niconia aeruginosa* Melastomataceae
Naud.

Around El Boquete, in fresh places in clearings and forest edges. Fl. white.

March. 5-6

2 2998.

Lauraceae

Around El Boquete, along the river. ^{± 20^m high} A tree; fl. yellow.

2 2999 - *Polytrichum antillarum* Rich.

Musci

Cerro de Lirio, above El Boquete, on rocks.

2 3000.

Lichen

Cerro de Lirio, above El Boquete, on trunks.

2 3001. *Brescentia Sonnell-simthii* Sprague

Around El Boquete, in woods along river. A small tree, 3-4 m. high, with hanging branches. Fl. all terminal.

2 3002. *Wigan dia*

Around El Boquete, in open places along river. 2-3 m. high.

2 3003. *Lycopodium*

Around El Boquete, on trees along river.

2 3004.

Filices

Around El Boquete, on trees along river

2 3005

Lichen

Around El Boquete, on trees.

March 6.

2 3006

Lichen

Along Baldera R. at Boquete, on trees.

2 3007

Lycopodium

Abund. El Boquete, on trees along river.

2 3008. *Byrsonima Lamingiana* A.D. Juss.

Malpighiaceae

Around El Boquete. A tree \pm 10 m. high.

= *B. crassifolia* (L.) DC.

2 3009. *Hormidium tripterum* Cogn.

Orchidaceae

Around El Boquete, epiphytic.

2 3010

Bromeliaceae

Around El Boquete, epiphytic. Fl. purple.

2 3011 *Tillandsia variegata* Schell

Bromeliaceae

Around El Boquete, epiphytic. Fl. purple.

2 3012. *Maxillaria acicula* Rehb. f.

Orchidaceae

Around El Boquete. Epiphytic. Fl. yellow.

2 3013. *Scaphyglottis*

Orchidaceae

Around El Boquete. Epiphytic. Fl. white, or greenish or purplish wh.

- 2 3014 *Uva. Fr. editle* Ericaceae Around El Boquete. Epiphytic on trees along river
- 2 3015. *Lanthornolum Limoncello Planch. & Derst.* Rutaceae Around El Boquete. A little tree. 2-4 m. high.
Limoncello
- 2 3016. *Adiantum* Around El Boquete, cliffs along river.
- 2 3017. *Maillaria variabilis Batem.* Orchidaceae Around El Boquete, on trees along river. Abundant on top of Cerro de Lino.
- 2 3018. *Maillaria iridifolia Rehb. fil.* Orchidaceae Around El Boquete, on trees along river. Hanging.
- 2 3019. *Fissidens asplenoides (Sw.) Hedw.* Hepatica Around El Boquete, on rocks along river.
- 2 3020 Hepatica Around El Boquete, on rocks along river
- 2 3021 Lichen Around El Boquete, along river on trunks.

March 6, 1911.

2 3022 - *Cormus disciflora* DC.

Around El Boquete, in forest midway to Cerro Lino. A tree.

2 3023 - *Piper pseudopropinquum* C. DC.

Piperaceae Around El Boquete, in forest above hotel. A small tree.

2 3024 - *Rondeletia amovena* Hemsl.

Rubiaceae On top of Cerro de Lino. A small tree.

2 3025 - ~~*Crotalaria*~~

Ciboria multiflora M. & S.

Leguminosae On top of Cerro de Lino. A shrub.

2 3026 - *Botrychium*

Filices Around El Boquete, midway to Cerro Lino.

2 3027 - *Asplenium praemorsum*.

Filices Cerro de Lino, on rocks.

2 3028 - *Anthurium trinerve* Mez.

Araceae Cerro de Lino, on rocks.

2 3029 - *Rhus juglandifolia* H. B. K.

Cedrito pino. La leche empolla

Anacardiaceae Around El Boquete. A tree of middle size. Fl. white.

March 5th

Cerro de Lino, on rocks

2 3030. *Selaginella*

2 3031. *Clethra lanata* Mart. & Gal.

Clethraceae

Cerro de Lino. A small tree. Fl. white.

2 3032

Briaceae

Cerro de Lino. A small tree. Corollae pinkish white.

2 3033. *Pitcairnia*

Cerro de Lino on rocks. Fl. scarlet red.

2 3034. *Maxillaria variabilis* Batem.

Orchidaceae

Cerro de Lino, on rocks

= 3017.

2 3035. *Hypericum griseoides* Seem.

Cerro de Lino, on rocks.

2 3036

Briaceae

Cerro de Lino, a small tree.

2 3037. *Ruellium*

Rubiaceae

Cerro de Lino. Fl. white.

March 6th

Cerro de Lino, a small tree. Fl. white.

Around El Boquete, along river. Fl. white. Leaves smooth.

Around El Boquete, on cliffs along river.

Around El Boquete, in cultivated grounds.

Around El Boquete, in cultivated grounds.

Around El Boquete, in shady places.

Around El Boquete, in shady places.

Around El Boquete. A small tree.

2 3038

Eriaceae

2 3039. *Saurauia*?

2 3040 *Centradenia*
inaequilateralis (G. & C.) Don

Melastomataceae

2 3041. *Paspalum paniculatum* L.

Gramineae

2 3042. *Chaetochloa imberbis* Scribn.

Gramineae

2 3043. *Panicum viscidellum* Scribn.

Gramineae

2 3044

Golanaceae

2 3045. *Soroea affinis* Hemsl.
Berba macho

Moraceae

March 6th.

Around El Boquete, in ditches

2 3046. *Lemna*

2 3047. *Epidendrum campylostachii* Rehb. f. Orchidaceae

Around El Boquete. Epiphytic. Sepals broader than 2 outer petals, purple with 3 sties and margin green. Outer petals purplish with 1 stie and margin green. Column green spotted with purple. Labellum white.

2 3048 *Epidendrum costaricense* Rehb. f. Orchidaceae

Around El Boquete. Epiphytic

2 3049. *Cyperus Jacquinii* (H. B. K.) Cyperaceae

Around El Boquete, in coffee plantations

2 3050. *Smilax*

Around El Boquete, in coffee plantations.

2 3051. *Trichopilia curvialbae* Rehb. f. Orchidaceae

Around El Boquete. Sepals and outer petals entirely white. Labellum white outside, with a few pink and golden spots inside. Columna white, adnate to labellum on $\frac{2}{3}$ of its length (column. in alcohol).

2 3052 Araceae

Near El Ladrillo, above El Boquete. Epiphytic

2 3053. *Picramnia carpienterae* Polak.

Near El Ladrillo, above El Boquete, ⁺ a small tree.

March 6, 1911.

- 2 3054. *Geissomeria lolioides* Lind. sp. nov. *Orantheaceae* Near El Ladrillo, above El Boquete.
- 2 3055. ~~Euphorbia~~? *Palisourea lanceolata* Desr. Above El Boquete, along Caldera R. Fl. purple
- 2 3056. *Hoffmannia psychotriacifolia* Hemsl. *Rubiaceae* Near El Ladrillo, above El Boquete. A small tree, 2-4m. h. fl. yellow.
- 2 3057. *Eupatorium Chileanum* Klatt. *Compositae* Near El Ladrillo, in clearings. Fl. white.
- 2 3058 *Cruciferae* Near Rio Ladrillo, in coffee plantation. Fl. greenish yellow.
- 2 3059. *Gonolobus* Near Rio Ladrillo. A milky vine. Fl. greenish yellow, with black stamens.
- 2 3060 Near R. Ladrillo, in dry slopes. Shrub. Fl. greenish white.
- 2 3061. *Senecio* Near R. Ladrillo, in clearings. 2-2.50 high.

- 2 3062. *Anthurium* Araceae Along R. Ladrillo, on dry slopes. Terrestrial.
- 2 3063. *Anthurium* Araceae Along R. Ladrillo, on dry slopes. Terrestrial.
- 2 3064. *Hyloum elongatum* Hemsl. Orchidaceae Along R. Ladrillo, in forest. Epiphytic. Spur thick and strongly marked. Fl. 3, sepals white, labellum yellow with purple striae and spots.
- 2 3065 Araliaceae Along R. Caldera, above El Boquete. Parasitic.
- 2 3066. *Hiceta* Along R. Caldera above El Boquete, on trees.
- 2 3067. *Phyllanthus lathyroides* HBK. March 10th 1911
Camp 1., along creek. A low shrub
- 2 3068. *Calceolaria irazuensis* D. Don Camp 1. along creek; also on lower burnt hill and up to camp 2. Fl. yellow.
- 2 3069. *Chusquea tessellata* Gramineae Camp 2. Common as underbrush.

March 10-13th 1911.

Camp 1, along creek. A treelet with bright yellow flowers.

2 3070. *Deppea longipes* Standley n. sp. Rubiaceae

Camp 2, on forest edge, but also from foot of lower burnt hill, rather common. Fl. white.

2 3071 Liliaceae

Camp 2, in the savanna, and up to the mountain top. Fl. purplish blue.

2 3072 Lobeliaceae

Camp 2, parasite on Myrtaceae (?) trees.

2 3073. *Dendrophthora biserrula* Bickl. Loranthaceae

Camp 2, on forest edges. A little tree or shrub, not over 2^m high.

2 3074. *Berberis*

Camp 2, on forest edges. A treelet 2-4m. high. Fl. white with pink tinges. Fr. bluish black.

2 3075. *Vaccinium* in *Myrtus oerstedii* (Berg) Hemsl. Myrtaceae

Camp 2, in bushes on forest edges. Wide altitude range.

2 3076. *Relbunium hypocarpium* Hemsl. Rubiaceae

Camp 2, on forest edges, also everywhere in upper tree belt, in sunny places, but does not seem to reach so high as following.

2 3077. *Vaccinium*

March 10th - 13th 1911.

Camp 2, on forest edges and in savannes, varying from a low shrub ~~20~~
20-30 m. high to a treelet 2^m high. Reaches to the top of the volcano

Camp 2, on forest edge. Just budding. Reaches to upper limit of
tree belt.

Camp 1. Epiphytic. Sepals obovate, brown. Cal. petals filiform. Labellum
3-lobed, each lobe 2-lobulate, also brown. Column green at base.

Camp 1. A vine. Fl. pale yellow or greenish.

Camp 1. A tree 15-25 m. high, with straight trunk, soft wood
and smooth bark.

Camp 1, on sandy ground along creek.

Camp 1. A very large tree 30-50 m. high, thick trunk and
flat buttresses. A characteristic tree for the belt between camp
1 and Punta Alta.

^{Punta Alta and top}
Between ~~Antio~~ ~~Antio~~, dominating and characteristic.

2 3078. ~~Vaccinium~~ *Vernettia coriacea* Kl. Ericaceae

2 3079. *Escallonia poasana* Donnell Smith Saxifragaceae

2 3080. *Epidendrum polyanthum* Lindl. Orchidaceae

2 3081. *Frantzia* ? *pittieri* (Cogn.) Pittier

2 3082. *Heliocharis popayanensis* H. B. K. Ciliaceae
Majagua babosa

2 3083 Rubiaceae

2 3084. *Ocotea* (Blake)? Lauraceae

2 3085. *Chusquea Pittieri* Hack. Gramineae

March 10-13th 1911.

Camp 2, on edge of forest. A small tree, 2-3 m. high with small calyx, dark red color. Stamens 6, yellow.

2 3086. *Maytenus blepharodes* Pitier sp. n. *Belasstraceae*

2 3087 *Compositae*

From Camp 2 to top of volcano in dry, sunny places

2 3088. *Castilleja*

From foot of 2^d burnt hill to top of volcano.

2 3089. *Eupatorium chiriquense* Robinson *Compositae*

From station above camp 2 to top of mountain, in dry, sunny places.

2 3090 *Compositae*

From camp 2 to top of volcano, in sunny places. Fl. purplish.

2 3091. *Arcytophyllum laevarene* Schum. *Rubiaceae*

Upper belt of volcano. A low shrub. Fl. purplish white.

2 3092. *Hypericum gridioides* Gleason

Upper belt of volcano.

2 3093. *Gnaphalium*

From camp 2 to top of volcano.

March 10-13th 1911.

Top of Volcan de Chiriqui - Not over 40 cm. high.

2 3094. *Senecio Perstedii*

2 3095

Ericaceae

From Camp 2 to upper limit of forest. At least 2-3 m high.

2 3096. *Geranium guatemalense* Knuth

Geraniaceae

On the edge of forest at camp 2. Fl. purple.

2 3097. *Aegopogon ceriseoides* Humb. & Bpl. d. Gramineae

Upper crest of Chiriqui volcano.

2 3098

Caryophyllaceae

Upper crest of Chiriqui volcano.

2 3099 *Myrrhodendrum*

In humid vale above camp 2. Reaches 2 m high.

2 3100. *Dendrophthora costaricensis* Urban

Loranthaceae

On *Myrcia* and oaks, upper belt of forest.

2 3101. *Agrostis toluensis* H. B. K.

Gramin

Upper belt of Chiriqui volcano, in isolated tufts.

March 10-13th 1911.

Upper tree belt, between barometric station and limit of trees, a
parasitic shrub (?).

2 3102 Ericaceae

2 3103. *Agrostis Petherici* Hook. Graminae

Upper zone of Chiriqui volcano.

2 3104. *Solanum didodontum* Bitter, sp. n. Solanaceae

Humid ravine above camp 2, trailing on bushes.

2 3105. *Salvia* Labiatae

Humid ravine above camp 2, very abundant. Corolla pink.

2 3106 *Lappula mexicana* (C. B.) Greene Boraginaceae

Humid ravine above camp 2. A high herb, (1.50).

2 3107 Phytolaccaceae

Humid ravine above camp 2. Abundant and gregarious.

2 3108. *Peperomia allagotacta* C. B. Piperaceae

Humid ravine above camp 2. Erect, fleshy.

2 3109. *Bitens Lebazia triangularis* Blake, type

Humid ravine above camp 2. Trailing, fl. purplish outside, white
inside.

March 10-13th, 1911.

Savana above El Boquete. A small tree, 4-5 m. high, with many white flowers.

First burnt hill, below camp 1, very abundant.

First burnt hill, below camp 1. Subligiose, 2^m high, very abundant; fl. purple.

Around camp 1, in gorge. Fl. purple.

Between stations 5 & 6. May be 2 species.

About station 5, very abundant on oaks and ground. Outer petals lanceolate acute, brownish green and shiny outside, brownish with lighter margin inside. Inner petals narrow lanceolate and brownish. Labellum yellow with pink spot. 2 small. Dark forest at base of mountain, forming the "suis-bris" on large areas.

Alto de Cuesta, near camp 1. A small tree, 3 m. high. Fl. pale pink.

2 3110

Myrtaceae

2

3111. *Phaseolus chiriquinus* Standley sp. n. Leguminosae

2

3112. *Meibomia Maxonii* Standley

* Papilionatae

2

3113. *Palicourea laucelata* Benth. Lythraceae

2

3114. *Fuchsia parviflora* Juss.

2

3115. *Epidendrum tetraceros* Rehb. f.

Orchidaceae

2

3116. *Piper minutissimum* C. D. C.

Piperaceae

2

3117. *Ardisia*

Myrsinaceae

~~*Ardisia irazuensis* (Perst.)~~
Ardisia Maxonii Standl

March 10-13th

- 2 3118. *Psychotria shiriana* Standley Rubiaceae Alto de Cuesta, near camp 1. A treelet, 3^m high. Fl. white
- 2 3119. *Monnina* Polygalaceae Alto de Cuesta, near camp 1, and below. A shrub 1-2 m. high.
- 2 3120. *Rondeletia amoena* Hemsl. Rubiaceae Alto de Cuesta, near camp 1. A shrub.
- 2 3121. *Conopholis americana* Waltr. Orobanchaceae Parasitic on oak roots in selva de Chango above el Salto, very
identif. doubtful abundant.
- 2 3122. *Gnaphalium* Alto del Cerro Quemado, in open places.
- 2 3123. *Cardamine* Camp 1, along creek and farther above in gorge.
- 2 3124. *Tatrophea gongylofolia* L. var. *elegans* (Klotzsch) Muell. Arg. Euphorbia El Boquete, cultivated
Frailicillo - med.
- 2 3125. *Baccharis* Along El Boquete, a shrub or treelet

March 16, 1911

- 2 3126 Commelynaceae Ravine of El Salto above El Boquete. Perigon hairy, blue. Plant succulent, about 60 cm. high.
- 2 3127 *Rubus costaricanus* Liebm. Rosaceae Dry bushes around El Boquete. Flowers pinkish white. Fruits small with few berries.
- 2 3128 Rhamnaceae Around El Boquete in dry places. Berry shiny, black. A small tree 3-4 m. high, with yellow wood.
nr. Amatillo
- 2 3129 *Trema canescens* Blume Urticaceae Around El Boquete, a middle sized, spreading tree.
Majagua de sahino
- 2 3130 *Inga Verstediana* Benth. Mimosaceae Around El Boquete, a middle sized, spreading tree. Fl. white.
Guaro
- 2 3131 *Persea veraguensis* Seem. Lauraceae Around El Boquete, a small tree, 4-5 m. high, with rounded crown.
Aguacatillo
- 2 3132 *Persea Schiedeana* Nees. Lauraceae Foot of El Salto ravine. A very large tree, 60-70 m high and 1.20 diam. at base. Fl. brownish yellow. Fruits (not seen) about 10 cm. in diam and with thick mesocarp.
Aguacatom. Fruits edible and fine.
- 2 3133 Piperaceae Foot of El Salto ravine. Subligustrum, up to 2.50 high. Stems hairy at first.
3133 *Piper imbellatum subpeltatum* L. DC.
n.v.

March 16. 1911.

Ravine of El Salto, above El Boquete. Cor. white.

2 3134 *Salvia wrobleyana* Bieg. Labiatae

2 3135. *Rubus eriocarpus* Liebm. Rosaceae
Sargamora.

Around El Boquete, in many places. Fl. small, white. Fr. large.

2 3136 Compositae
Compositae

Around El Boquete, in bushes. Shrub about 2' high. Fl. white.

2 3137. *Sonneratia mesochora* Standley Rubiaceae

Around El Boquete, in forest and shady places. A small tree. Fl. white.

2 3138. *Malvaviscus arboreus* Swartz Baker. Melvaceae

Pie' de la cuesta de Quicel, above El Boquete. A shrub. Fruit scarlet red, shiny.

2 3139. *Rubus trichomallus* Cham. & Schl. Rosaceae

Pie' de la cuesta de Quicel, above El Boquete, in bushes. Fl. very small, white; fr. small, dense.

2 3140. *Calliandra tetragona* (Willd.) Benth. Mimosaecae
Cromillo

Pie' de la cuesta de Quicel, above El Boquete, in bushes. A small tree, 2-4' high. Fl. white.

2 3141. *Vitis filicifolia*
Bejuco de agua

Pie' de la cuesta de Quicel, above El Boquete. Seen at about 1800' on way to Volcano.

March 16th

- 2 3142 *Conostegia* Melastomataceae Pied de la cuesta de Zúel, above el Boquete. A small tree, ± 6 m. high. Racemes terminal. Corolla multilobed, white.
- 2 3143 *Cedrela* sp. Meliaceae Cedro Pie' de la cuesta de Zúel, above el Boquete. A sapling with very large leaflets, growing in the shade, 4 m. high, another younger in sunny exposure with smaller leaflets.
- 2 3144 *Crickilia havanensis* Jacq. Meliaceae? Pie' de la cuesta de Zúel, above el Boquete. A tree ± 20 m. high. Fl. greenish white.
- 2 3145 *Gynandropsis chiriquensis* Standl. ^{Capparidaceae} n. sp. Along Caldera R. below Zúel. Fl. scarlet red.
- 2 3146 Lauracea Along Caldera R. below Zúel. A tree. *Sigua*
- 2 3147 Asclepiadaceae Along Caldera R. below Zúel. A vine. Corolla tube green outside, as wide as right margin of ^{the} dark purple crown.
- 2 3148 *Sanicula* Umbelliferae Along Caldera R. below Zúel.
- 2 3149 *Geissomeria lolioides* Lind. sp. nov. Oenanthaceae Along Rio Caldera below Zúel. Fl. pinkish purple.
[=3054]

March 16, 1911.

2 3150. *Philodendron calderense* Krause

Araceae

Along R. Caldera below Quil. Epiphytic

2 3151. *Monstera Friedrichsthaliani* Schott.

Araceae

Along R. Caldera below Quil. Epiphytic

2 3152. *Begonia Seemanniana* A. DC.

Begoniaceae

Along R. Caldera below Quil. in ~~shady~~ damp places.

2 3153. *Elaterrine trianaei* Cogn. Cucurbitaceae

Along R. Caldera below Quil. in cool, shady places. Fl. yellow.

2 3154. *Tesmopsis Maconii* Safford. n. sp. Anonaceae

Around El Boquete, in forest. Fl. pale yellow.

2 3155. *Evolvulus*

Around El Boquete, in pastures, common.

2 3156. *Calceolaria*

In damp forest, upper camp. Volcan de Chiriqui. Frequent.

March 17-19, 1911.

3157.

Compositaceae

From R. La Grilla to Camp. Leaves gl. Fl. purplish pink.

March 17-19, 1911.

Between Rio Ladrillo and Plateau at foot of C. Horqueta. Herba-
ceous. Fl. red. In many places.

Between R. Ladrillo and Los Liguas. A small tree, with straight
trunk. \pm 6 m. high, crown pyramidal, fl. purplish white, corolla

Between R. Ladrillo and Los Liguas. Epiphytic.

Between R. Ladrillo and Los Liguas. Epiphytic.

Between R. Ladrillo and Los Liguas. A small tree, growing
on ridges. Fl. small, petals first reflected and soon falling. Fruit \pm 3
cm. diam. (not seen) edible

Between R. Ladrillo and first hill (alt.), in shady places. A fine, erect
shrub, 4-5 m. high. Ananta erect.

Between R. Ladrillo and first hill, in cool places along river. Ananta hanging.
Up to Los Liguas

Clearing above R. Ladrillo; seems distinct from n.

2 3158.

Ulmaceae

2 3159. *Jasminum*

2 3160. *Anthurium joseanum* Engl.

Araceae

2 3161. *Anthurium*

2 3162. *Rheedia*
Satra de montaña.

2 3163. *Piper Maxonii* C. DC.

Piperaceae

2 3164. *Piper Maxonii* C. DC.

Piperaceae

2 3165. *Sapum*

March 17, 1911

- 2 3166 ~~Ruellia~~ *Browallia speciosa* Hook. ^{Plantaginaceae} Along R. La Lucha, near mouth. Fl. large, purplish blue.
- 2 3167 *Ardisia Matoni* Standl. ^{Myrsinaceae} On hills leading to Los Liguas. A treelet growing in many places, 3-4 m. high.
~~*Scaevola*~~ ~~*inaguensis* (Verst.)~~
- 2 3168 Palm From first hill to Los Liguas. Varying from a few cm. to 2" high.
- 2 3169 Palm Around Los Liguas. Above obs. must apply to this sp., seen from the Jasmine hill (alt.) to near the top of Horqueta.
- 2 3170 *Sol* Solanaceae Along R. La Lucha, in damp places. A low shrub. Fl. campanulate, yellow.
- 2 3171 Palm Around Los Liguas. Low (\pm 1 m.), not frequent.
- 2 3172 *Begonia mucronistepula* C. & B. ^{Begoniaceae} From Jasmine Hill to Los Liguas. Entirely smooth. Leaves green above, glaucous below. Outer sepals pink.
- 2 3173 *Lepanthes eciliata* Schltr. sp. nov. ^{Orchids} Around Los Liguas, epiphytic. Fl. salmon, with purple lines inside.

- 2 3174 Hepatic Around Los Liguas, hanging from trees.
- 2 3175 Hepatic Around Los Liguas, hanging from trees.
- 2 3176 *Chondrorhiza Lendyana* Rehb. f. (Rolf?). Orchid Around Los Liguas. Petals and sepals white, and also column.
- 2 3177 Melastomat Around Los Liguas. A treelet, ramose from base, 2-3" high, growing in sunny places. Corolla pink.
- 2 3178 *Monstera Parkeriana* Schott. Araceae Around Los Liguas. Epiphytic. Nerves II distant. Spathe cream colored.
- 2 3179 *Monstera pertusa* (L.) de Vriese Araceae Around Los Liguas. Epiphytic. Nerves II numerous and close. Spathe salmon.
- 2 3180 *Parmelia* Around Los Liguas, on tree trunks
- 2 3181 *Plectra* Around Los Liguas on tree trunks

March 17-19, 1911.

2 3182. *Stictis*

Around Los Liguas, on tree trunks.

2 3183. *Pterobryum densum* (Schwartz) Hornsch.

Musci

Around Los Liguas, on tree trunks

2 3184. *Oreopanax oligocarpum* D. Don. *Araliaceae*

Around Los Liguas, epiphytic.

2 3185. *Piper tenuimucronatum* B. & C.

Piperaceae

Around Los Liguas. A treelet under cover.

2 3186. *Columnea*

From Lasmin Hill up to 2000m above Los Liguas. Epiphytic.

2 3187. *Anthurium*

Around Los Liguas. Spadix orange yellow at maturity.

2 3188

Malvaceae?

Around Los Liguas, in shady forest. Fl. hanging, pink.

2 3189.

Palmae

Around Los Liguas, in shady, damp forest.

March

17-19, 1911.

2 3190

Gesneraceae?

Around Los Liguas, epiphytic. Fr. only.

2

3191. *Piper erectamentum* C. DC.

Piperaceae

Around Los Liguas, in shady places. Aments erect.

2

3192

Palm.

From Jaramin Hill to Los Liguas. Stem \pm 1-1.50 high, very slender.

2

3193

Melastomataceae

Around Los Liguas. A small tree, 3-5^m high.

2

3194. *Psychotria panamensis* Standley

Rubiaceae?

Around Los Liguas. A small tree.

2

3195. *Marcgravia rectiflora* Tr. & Pl.

Marcgraviaceae

Around Los Liguas. Epiphytic.

2

3196

Canillo.

Melastomataceae

Around Los Liguas. A tree about 25 m. high, 30 cm. diam., with gray, smooth bark.

2

3197. *Peperomia quadrifolia* H. B. K.

Piperaceae

Around Los Liguas. Epiphytic.

March 17-19, 1911

- | | | | |
|---|---|------------|---|
| 2 | 3198. <i>Randia</i> | Rubiaceae | Around Los Liguas, a tree with radicate branching, and pyramidal form, 8-10m. high. |
| 2 | 3199. <i>Uncinia jamaicensis</i> Pers. | Cyperaceae | Around Los Liguas. |
| 2 | 3200
<i>Siquaton</i> . Wood used as timber | Lauraceae | Around Los Liguas. A large tree, with erect trunk. \pm 60m. |
| 2 | 3201
<i>Siqua bambusa</i> | Lauraceae | Around Los Liguas. A large tree, with erect trunk. \pm 50m. |
| 2 | 3202 | Orchid | Around Los Liguas. Epiphytic. Fl. dark purple. |
| 2 | 3203. <i>Peperomia hygrophylla</i> C. DC.
<i>Garraapatilla</i> | Piperaceae | Around Los Liguas. Epiphytic. |
| 2 | 3204. <i>Faramea occidentalis</i> R. Rich | Rubiaceae | Around Los Liguas. A small tree. |
| 2 | 3205 | Moraceae? | Around Los Liguas. Epiphytic? |

- 2 3206 Ericaceae From El Alto de Las Palmas to top of Horqueta. Bracts pink, corolla white.
or pink
Shrub with long, slender, hanging branchlets.
- 2 3207 Orchidaceae Between Los Liguas & El Alto de Las Palmas. Epiphytic. Fl. dark purple.
- 2 3208. *Rhizogonium spiniforme* (L.) Bruch. Musci Between Los Liguas & El Alto de Las Palmas. On tree trunks.
- 2 3209 Campanulaceae Between Los Liguas & El Alto de Las Palmas, in many places. Fl. purple.
- 2 3210 *Cestrum* Rubiaceae Between Los Liguas and El Alto de Las Palmas. Shrub, 3' high. Fl.
pinkish purple.
- 2 3211. *Palicourea chiricana* Standley Rubiaceae Between Los Liguas y el Alto de la Palma. A treelet, 2-3' high.
Fl. sulphur yellow.
- 2 3212 Araliaceae Between Los Liguas & el Alto de la Palma. Epiphytic
- 2 3213 *Dendropanax praestans* Standl., n. sp. Araliaceae From the middle of cuesta de la Palma, to top of la Horqueta. A small
tree.

March 17-19, 1911.

[Cuesta de las Palmas]

2 3214. *Warszewiczella caloglossa* Khltr.

Orchidaceae

Between Los Liguas y el Alto de las Palmas. Like 3176, but labellum with 2 distinctly purple striated.

2 3215. *Columnea*

Gesneraceae

Lower part of Cuesta de las Palmas. Epiphytic.

2 3216. *Euphorbia caracasana* Boiss.

Euphorbiaceae

Lower part of Cuesta de las Palmas. A shrub

2 3217. *Peperomia palmarum* glabrior C. B.

Piperaceae

Alto de Las Palmas. Epiphytic.

2 3218

Rubiaceae

Alto de Las Palmas. A treelet 2-1.50 high. Fl. white. Bracts pinkish.

2 3219

Campanulaceae

Upper part of Cuesta de las Palmas. Hanging from trees. Fl. pinkish.

2 3220. *Epidendrum microdendrum* Rehb. f.

Orchidaceae

Upper part of Cuesta de las Palmas. Epiphytic. Fl. greenish yellow.

2 3221

Marchantia

Upper part of Cuesta de las Palmas. Hanging from tree branches.

2 3222 *Palicourea pauciflora* Standl. Rubiaceae

March 17-19.
Cuesta de la Horqueta. A small tree. Fl. greenish purple.

2 3223 *Gymbolanthus pulcherrimus* Gilg Gentianaceae

Cuesta de la Horqueta. Fl. pink. Plant \pm 1.50 high.

2 3224 Melastomataceae

Cuesta de la Horqueta. A small tree, 3-4 feet high. Fl. pinkish white.

2 3225 *Piper palmasanum* C. D. C. Piperaceae

Cuesta de la Horqueta. A shrub.

2 3226 *Ardisia compressa* H. B. K. Myrsinaceae

Cuesta de la Horqueta. A treelet, 3^m high.

2 3227 *Pleurothallis Pittieri* Schltr. Orchidaceae

Cuesta de la Horqueta. Fl. white. Apparently terrestrial

2 3228 *Stelis* Orchidaceae

Cuesta de la Horqueta. Fl. yellowish white. Epiphytic

2 3229 *Scaphosepalum elasmatopus* Schltr. sp. nov. Orchidaceae

Cuesta de la Horqueta. Fl. purplish. Epiphytic

2 3230. *Pilea* Urticaceae Near to the top of Horqueta. Racemes and fl. pinkish. Fleshy.

2 3231. *Nertera depressa* Banks. Rubiaceae Near the top of Horqueta. Fl. white. Fr. red.

2 3232 *Crinys winteri* Forst. Guttiferae? Near the top of Horqueta. Communita?

2 3233 Melastomat. Top of Cerro de la Horqueta. A shrub or treelet.

2 3234 Ericaceae Top of Cerro de la Horqueta. A small tree, unless epiphytic. Fl. greenish white.

2 3235. *Psychotria peperomiaefolia* Standley ~~Rubiaceae~~? Top of Cerro de la Horqueta. A shrub.

2 3236. *Epidendrum microdendron* Rehb. f. Orchidaceae Top of Cerro de la Horqueta. Fl. yellowish green. Epiphytic?

2 3237 *Palicourea pauciflora* Standl. Rubiaceae? Top of Cerro de la Horqueta. Fl. greenish purple. A shrub.

March 17-19th, 1911.

Upper region of Horqueta. Fl. orange red.

3238

Gesneraceae

3239

Gesneraceae

From Los Liguas near to top of la Horqueta. Fl. red, large, almost unicolorate.

3239^a *Hookeriopsis undata* (Hedw.) Jaeg.

Musci

(*H. crispa* B. M., fide R. S. Williams)

3240

Cyclanthaceae

From upper part of Cuesta de las Palmas to top of la Horqueta. Fr. red.

3241

Marchantiaceae

Upper belt of Cerro de la Horqueta, in rocks.

3242. *Stelis*

Orchidaceae

Midway between Los Liguas & the Alto de las Palmas (M.). 3 cent. sepals dark purple.

3243. *Ornithidium costaricense* Schltr. var.

Orchidaceae

From Alto de las Palmas to top of Horqueta. Fl. pale pink.

3244. *Ornithidium costaricense* Schltr.

Orchidaceae

From Alto de las Palmas to top of Horqueta. Fl. pale pink, much denser than in 3243. Leaves shorter.

3245. *Gaultheria setosa* small.

Ericaceae

Upper belt of Cerro de la Horqueta. Fl. pinkish.

March

17-19, 1911.

2 3246

Mimmiaceae?

Upper belt of Cerro de la Horqueta. A small tree.

2

3247. *Hoffmannia* ^{*Pittieri Standley*} ~~*psychotrioides*~~ sp. nov. Rutaceae

Upper belt of Cerro de la Horqueta. Herbaceous. Fl. yellowish white.

2

3248. *Begonia pubi-pedicella* C. DC.

Begoniaceae

Upper part of Cuesta de la Palma. Fl. pinkish. Stems & petioles hairy.

2

3249. *Begonia udisilvestris* C. DC.

Begoniaceae

Upper part of Cuesta de la Palma. Leaves purple on margin. Stems & petioles smooth.

2

3250 *Psychotria bella* Standl. Gesneraceae?

Upper belt of Cerro de la Horqueta. Peduncles, bracts & calyxes pink, corolla white, regular.

2

3251. *Peperomia*

Piperaceae

Upper belt of Cerro de la Horqueta.

2

3252. *Gematophyllum auratum* Ren. & Gard.
Daltonia gracilis Mitt.

Musci

Upper belt of Cerro de la Horqueta.

2

3253

Campanulaceae

Upper belt of Cerro de la Horqueta. Epiphytic. Fl. dark purple.

March 17-19th 1911.

Cuesta de la Horqueta... A low shrub. Fl. scarlet red.

Upper belt of Cerro de la Horqueta. A shrub. Buds purplish white.

Cuesta de la Horqueta. Fl. orange yellow, darker at center.

Top of Cerro de la Horqueta. A shrub or treelet. Fl. greenish.

Upper belt of Cerro de la Horqueta. Epiphytic.

Upper belt of Cerro de la Horqueta. Epiphytic.

Cuesta de la Horqueta. Epiphytic? 

A little below el Alto de las Palmas, on a rock.

2 3254. *Miconia atrosanguinea* Melastomaceae
-Cogn.


2 3255 *Ardisia pallidiflora* Staudl. Myrsinaceae?
n. sp.

2 3256. *Lepanthes Maroni* Schl. Orchidaceae

2 3257 Melastomaceae?

2 3258. *Anthurium* Braccae

2 3259. *Anthurium scandens* Engl. var. *violaceum* Engl. Braccae

2 3260  Melastomaceae.

2 3261 Hepaticae

2 3262

?

March 17-19.

Cuesta de la Horqueta. A shrub. Fl. yellow.

2 3263. *Solanum*

Cuesta de la Horqueta. A vine. Fl. pale purple.

2 3264. *Psychotria aggregata* Standley

Rubiaceae

Cuesta de la Horqueta. A herbaceous shrub. Fl. white.

2 3265

Rubiaceae

Cuesta de la Horqueta. A shrub. Fl. purplish white.

2 3266

Rubiaceae

Alto de las Palmas. Bracts yellow. Buds white.

2 3267. *Ardisia compressa* HBK

Alto de las Palmas. A small tree, 3-4' high. Fl. white.

2 3268 *Viburnum*

Rubiaceae

From Rio Ladrillo, to Alto de las Palmas. Common. Fl. white.
Shrub 0.40-1' high.

2 3269. *Peperomia*

Alto de las Palmas. Epiphytic.

2 3270. *Cobaea panamensis* Standley

2 3271. *Crychotria anomothyrsa* Schum. & S. S. Rubiaceae

2 3272 *Oreanthaceae*

2 3273 *Cyclanthaceae*

2 3274. *Mnium ligulatum* C. M. Musci

2 3275 *Microstylis*, aff. *hastulata* Orchidac.

2 3276 *Melastomat.*

2 3277. *Microstylis Pittieri* Schltr. sp. nov. Orchidaceae

March 18th

Along Rio Ladoillo, in sunny, yet cool places.

From Cerro del Jaramin to Alto de las Palmas. A shrub, 1-1.5 high.
Fl. white. Common. Fr. also white.

From Cerro del Jaramin to Alto de las Palmas. A shrub up to 1.20 high,
apparently common. Seeds only.

Around los Liguas. Epiphytic in very humid places. Not seen in
fl. or fr.

Near top of Cerro Horqueta, in rocks.

Upper belt of Cerro Horqueta. Terrestrial. Fr. and buds.

Upper belt of Cerro Horqueta. A treelet.

Upper belt of Cerro Horqueta.

2 3278.

Cyclanthaceae

3279 below

2 3280 *Mollinedia laevis* Standl.

March 10th 1911

Upper belt of Cerro Horqueta. Fruct. green. (M.).

Cerro del Jasmin, on trail to Horqueta. A treelet, 3-4^m high.

Like *Guatteria* with torulose leaves.

2 3281. *Coussategia*

Meleostomataceae

Cerro del Jasmin, on trail to Horqueta. A treelet 2-3^m high. Fl. white.

2 3282. *Cornus disciflora* DC.

Valley of R. Ladrillo. A very large tree, at least 30^m high and 60^{cm} diam.

2 3283. *Solanum*

In clearings along R. Ladrillo. Fl. white.

2 3284.

Caryophyll.

In clearings along R. Ladrillo. Fl. white.

2 3279. *Phytolacca*
~~under~~

In clearings along R. Ladrillo.

2 3285.

Caryophyll.

In clearings along R. Ladrillo.

March 19th

2 3286. *Passiflora sexflora* Juss.

Passifloraceae

In clearings along R. Ladrillo. Fr. purplish black when mature.

2 3287. *Malache Maxonii* Standley

Malvaceae

In forest along R. Ladrillo. About 50-60 cm. high, gregarious. Fl. pink, erect.

2 3288. ~~Mikania~~ *Valeriana mikaniae* Lindl

In clearings along R. Ladrillo. Stems recumbent, winding. Fl. white.

2 3289. *Mimosa*

In clearings along R. Ladrillo. \pm 1.50 high. Fl. blue purple.

2 3290.

Gesneraceae

In forests around El Boquete. ^{gregarious} low shrub. Fl. white.

2 3291.

Loganiaceae

In forests around El Boquete. Fl. pinkish white.

2 3292. ~~Hyptis~~ *Salvia leptoides* M. & G.

In pastures around El Boquete. Fl. pale purple or blue

2 3293.

Fungus

In forest on Cerro del Jasmin, trail to Horqueta.

3294.

Fungus

Around El Boquete

3295

Fungus

Around El Boquete

3296

Fungus

Around El Boquete

3297.

n.v. Tcaquillo; sortija.

3298. *Clusia rosea* L.

Cope, Cope grande

3299. *Clusia*

Cope chico

3300. *Psidium serotianum* Berg.

Guayavito anaija. Med. Infusum (bitter) used in

strong diarrhoea.

3301. *Eriosema obovatum* Benth.

Leguminosae

3301. " *crinitum* (H.B.K.) Don.

"

"

Sabana de la Tortuga, between Boquete and Caldera. A small tree, 4-5 m. high. Fruits black or purple black when ripe. March 28. (Fr. in alcohol)

March 28th, 1911.

Sabana de la Tortuga, between Boquete and Caldera. Fruits large. (Fr. in alcohol)

Sabana de la Tortuga, between Boquete and Caldera. Fr. small.

Sabana de la Tortuga, between Boquete and Caldera. Fl. white. A low shrub, growing after the fire

Sabana de Boquete y Tortuga, growing after the fire. Fl. yellow.

3302

Escoba

Myrtaceae

Sabana de El Boquete, growing at times to size of a small tree, but mostly a low shrub.

3303. *Curatella americana* L.

Dilleniaceae

Chumico palo; wood used for saddles' skeletons.

Sabanas, all the way down from El Boquete to David. Sometimes growing to a tree 35-40 cm. in diameter

3304. *Melochia hirsuta* Cav.

Sterculiaceae

Hierba del soldado - Med.

Sabana de la Tortuga. Fl. purple.

3305 *Clidemia rubra* (Aubl.) Mart. Melastomat.

Sabana de la Tortuga. A low shrub. Fl. pink, small.

3306 *Miconia albicans* (Sw.) Triana Melastomat.

Sabanas de Boquete y Tortuga, a low shrub, characteristic.

3307

Lauraceae

Sabana de la Tortuga, in wooded, highest part. A tree 15' high; fl. white.

3308. *Roupala complicata* H.B.K.

Proteaceae

Carne asada

Sabana de la Tortuga. A small tree. No fl.

3309. *Cosmibuena ovalis* Standley?

Rubiaceae

On cliffs along Caldera R., in sabanas de Boquete & Tortuga. A small tree.

March 21st 1911

3310. *Bombax Fendleri* (Seem.)

Bombacaceae Cliffs of Caldera river near Franca del Boquete. A small tree. (Fr. in alt.)

3311. *Chamaecrista rotundifolia* (Pursh)

Caesalpinaceae Sabana de la Tortuga. Fl. yellow.

3312. *Phoradendron undulatum* Bickl.

Loranthaceae Sabana del Boquete, on Myrtaceus tree.

3313. *Hexisea bidentata* Lindl.

Orchidaceae Sabana de El Boquete, epiphytic. Fl. fire-red.

3314. *Phaseolus linearis* H.B.K.

Leguminosae Sabana de la Tortuga, after fire. Fl. purple.

3315. *Aristida capillacea*.

Gramineae Sabanas de Boquete y Tortuga, common.

3316

Sabanas de El Boquete. Common.

3317. *Polygala hygrophylla* H.B.K.

Polygalaceae Sabana de la Tortuga, after the fire. Fl. pinkish.

March 2nd 1911.

3318. *Borreria tenella* (H.B.K.) C. & S.

Rubiaceae

Sabana de El Boquete. Fl. white

3319. *Declieuxia mexicana* DC.

Rubiaceae

Sabana de El Boquete. Fl. white

3320. *Hypericum griseoides* Seem.

Sabana de El Boquete. Fl. yellow.

3321. *Mimosa somnians* Humb. & Bonpl.

Mimosaceae

Sabana de El Boquete. Fl. pink.

3322. *Clethra lanata* Mart. & Gal.

Clethraceae

Sabana de El Boquete. Fl. white. A tree

3323. *Miconia argentea* (Sw.) DC. Melastom.
Canillo

Sabanas de El Boquete y la Cortuga, a small tree with flat
crown. Characteristic.

3324. *Andropogon leucostachyus* H.B.K. Graminae

Sabanas de El Boquete y la Cortuga, after the fire.

3325. *Davilla Kuntzei*
Chumico

Dilleniaceae

Sabanas de El Boquete. Everywhere. Fl. yellow

3326

Arraiján

Myrtaceae

March 23rd

Sabana de la Cortuga. A little tree. Fl. white.

3327. *Piper geniculatum* Sw.

Piperaceae

Sabana de la Cortuga. Small, erect tree, 4-5m. high.

3328. *Duranta Plumieri* Jacq.
Lora

Verbenaceae

Bajo Boquete, along road, also in savanas of Cortuga, Macano, Higo, etc., forming at times an important element of the woody formation. Fl. light purple.

3329. *Lippia geminata* H.B.K.
Mastranto

Verbenaceae

Bajo Boquete. Fl. purple. Plant very aromatic and odorous. a shrub.

3330. ~~*Myrotilon*~~ *Myrotilon ellipticum* (Clos) Kuntze
no. Roseto

Bajo Boquete, along road. A tree, thorny, variable in size. Fl. greenish.

3331. *Epidendrum atropurpureum* W
San José, or Semana Santa.

Orchidaceae

Savanas de la Cortuga, Macano, Caldera, etc. on timber belt (nauca, chumico, etc.) common. Sepals brownish purple. Labellum pink.

3332. *Pleurothallis Wercklei* Schltr.

Orchidaceae

Savanas de la Cortuga and Caldera. Fl. red.

3333

Around Caldera, a vine. Fl. greenish.

3334

Myrtaceae

March 28th

Around Caldera; a small tree.

3335 *Eugenia acapulcensis* Steud. Myrtaceae

Savana de la Tortuga; a small tree.

3336. *Lippia umbellata* Cav.

Verbenaceae

Caldera Bridge; a small tree. 3^m high, pyramidal.3337. *Polygala Pittieri* Blake (type)

Polygalaceae

Savana de la Tortuga. Fl. pink. After the fire.

3338

Amarantaceae

Savana de la Tortuga; after the fire.

3339

Compositae

Savana de la Tortuga. Fl. purple blue

3340. *Exochum molle* Bertol.

Myrtaceae

Savana de la Tortuga. A small, twisted tree. Fl. white.

3341. *Roupala complicata* H. B. K.
carne asada

Proteaceae

Savana de la Tortuga. A small tree

3342. *Borreria tenella* (H.B.K.) C. & S.

Rubiaceae

March 21-24th 1911

In savanas, from Biquete to Caldera, after the fire. Fl. white.

3343. *Swartzia trifolia* Pittier

Leg.

Savana de la Tortuga. A small tree, 4-5 m. high.

3344. *Rheedia edulis* Tr. & Pl.
Satra; fr. edible

Gutt.

Woods interspersed in savanas, and along rivers. A pyramidal tree, 5-8 m. high. Fl. white (?). Fruit orange-yellow, hanging. Savana de la Tortuga

3345. *Phoradendron latifolium* (Sw.) Griseb.

Loranthaceae

Savana de la Tortuga, on curatilla (?).

3346. *Ficus Perstediana* Mig.

Moraceae

Caldera; a tree. (Alch. mater.)

3347. *Licania platypus* (Hemsl.) Fritsch.
Zapote

Rosaceae

Caldera; a tree, 12-15 m. high.

3348. *Ficus costaricana* (Liebm.) Miguel

Moraceae

Caldera; a tree. (Alcohol. mater.). Fr. yellow when ripe.

3349. *Clusia minor* L.
Cope chico

Gutt.

Caldera; a small tree.

3350. *Protium glabrum* (Rose) (*Isica glabra* Rose). Burseraceae

n.v. Chutrá

3351. *Hymenaea Embracil* L.

Algarrobo

Leguminosae

3352. *Oncidium Baueri* Lindl.?

Orchidaceae

3353. *Lonchocarpus velutinus* Benth.

Gallote?

Leguminosae

3354 *Erythroxylon amplum* Benth

3355. *Aspasia epidendroides* Lindl.

Orchidaceae

3356. *Smilax dominicensis*
n.v. Coronillo

3357. *Phoradendron latifolium* Griseb. Loranthaceae

March 22th

Balderra; a small tree. Fl. pale yellow.

Balderra; a tree.

Balderra; epiphytic. Raceme long; fl. yellow & brown.

Balderra and everywhere on road to David. A small tree, fl. dark purple.

Balderra; a small tree.

Balderra; epiphytic; sepals brownish yellow. Labellum yellow with purple spots.

Balderra. a vine trailing in bushes.

Balderra; epiphytic.

3358.

Filix

March 22th

Puente del Rio Caldera, near Caldera. A tree fern, up to 2m. high.

3359. *Ficus velutina* H. B. K.

Moraceae

Tabana del Macano, between Caldera & David. A large tree.

3360. *Vismia*

Tabana del Macano, between Caldera & David. A small tree. Petals yellowish white & papillae inside.

3361.

Arriaján

Myrtaceae

Tabana del Macano; between Caldera & David. Small tree; fl. white.

3362. *Hydrolea spinosa*

Tabana del Macano in dried bed of a rivulet. Fl. azure blue.

3363. *Dylobium stachyobiorum* Hemsl.

Orchidaceae

Caldera; epiphytic.

3364.

Scrophulariaceae

Savanas de El Boquete. Fl. purple. Like *Crinus*, but entire leaves

3365. *Tiburnummontana acapulcensis* Miss.

Huevos de Gato; jásmin de Monte

Apocynaceae

March 25th

Around David; a shrub or a small tree; fl. white.

3366. *Cestrum laurifolium* L'Her. Solanaceae

March 25th

Arund David. A small tree or a shrub. Fl. greenish white, opening apparently toward evening, odorous. Leaves and wood with bad odor.

3367. *Desmopsis bibracteata* (Robinson) Safford Anonaceae

Arund David. A small tree. Fl. sulphur yellow. Fr. red. at maturity.

3368. *Quazuma ulmifolia tomentosa* Schum. Sterculiaceae

Arund David. A medium sized tree.

3369. *Watsonanira tinajita* (Lem.) O.K. Rubiaceae

Arund David. A treelet, 2-4 m. high, suffrutescent. Leaves pinnatis

3370

Lauraceae ??

Arund David. A tree. Fl. white.

3371. *Posoqueria latifolia* R. & S.

Rubiaceae

Arund David. A small tree. Fl. white. Fr. yellow when ripe.

Huevo de mono

3372. *Andira chiricana* Pitker

Leguminosae

Arund David. A mid-sized tree. Fl. paniculate, purple; ovary hairy all over (Only species with this character reported from C.A.!)

Harinillo o' Tarinillo

3373

Trepanocarpus lunulatus (L.F.) Mey.

Leguminosae

March 30th

Pedregal, in driest places of the mangrove edge. A spring treelet. Fl. purple

3374

3375. *Anona glabra*

Anon de puerco. Fruits large, not edible

3376. *Guianensis nitida* Jacq.

Verbenaceae

3377

Scrophulariaceae

3378. *Acacia*

3379. *Serjania atrolineata* Sav. & Wright, f. 2
lanceifolia Radlk. Leguminosae

3380.

3381. *Peperomia*

March 30th

Pedregal de David, on dry edge of mangrove formation. Fl. pale purple.

Pedregal de David. A small tree. Fl. large, petals thick, yellow inside. Grows on margin of mangrove swamp.

Pedregal de David, in the mangrove swamp. A small tree.

Pedregal, in damp places on the margin of the mangrove. Fl. purplish pink.

March 31st

Puerto Remedios, on high ground. A treelet.

Around Puerto Remedios. A vine. Fl. white.

Around Puerto Remedios. A small tree. Fr. red.

Around Puerto Remedios, on tree trunks.

March 31, 1911.

3382.

Rubiaceae

Around Puerto Remedios, in bushes. 2-4 m. high. Bracts scarlet, fl. yellowish white.

3383. *Miconia tripetiolaris* (Sw.) Don

Around Puerto Remedios, in bushes. 3-5 m. high.

3384. *Eupania guatemalensis* Radlk.

Sapindaceae

Around Puerto Remedios, a small tree.

3385. *Ouratea wrightii* (Vau Tieq.) Riley

Around Puerto Remedios. A treelet.

3386. *Liparuna nicaraguensis* Nees

Around Puerto Remedios. A treelet.

3387. *Barleria micans* Nees

Acanthaceae

Around Puerto Remedios. Fl. yellow.

3388. *Catenaemontana grandiflora* Jacq.
Huevos de gato.

Apocynaceae

Around Puerto Remedios. Fl. orange yellow.

3389. *Triplaris*

April 8, 1911.

3390. *Mormodes buccinator* Lindl.

Orchidaceae

Culebra (from Mrs Gaillard's coll.). No leaves. Fl. yellow.

006

3391. *Epidendrum radiatum* Lindl.

Orchidaceae

Culebra (from Mrs Gaillard's coll.). Bulb pedunculate, elongated, smooth. Sepals (broad or
then pet.) and 2 outer p. greenish white (lighter inside), turning later to pale yellow. Labellum white,
purple lined inside (Fl. in alcohol). Raceme of fl. in axil of leaves

see sp. coll. March 17-19.

3392. *Epidendrum* indet.

Orchidaceae

Culebra (from Mrs Gaillard's coll.). Sepals and 2 outer petals greenish yellow
at base, brownish purple with yellow margin at tip; wings yellow, darker at edge; la.
bellum yellow, filled and darker on margin, with purple lines. Golden caps ^{and pollinia} brownish yellow.

3393. *Warszewiczella discolor* Rehb. f.

Orchidaceae

Culebra, brought from Costa Rica ^{& Runcorn's} (Mrs Gaillard's coll.). Labellum purple,
other parts mostly pinkish white. No bulb.

3394. *Mylabium stachyobiorum* Hemsl.

Orchidaceae

Culebra (From Mrs Gaillard coll.). Fl. white. Sepals (broad) and 2 outer p.
greenish white (lighter inside) turning later to pale yellow. Labellum white, purple lined
inside.

3395. *Rodriguezia secunda* H.B. & K.

Orchidaceae

Culebra (from Mrs Gaillard's coll.). Fl. numerous, pinkish purple.

3396

^{& Mrs Runcorn's}
Culebra (from Mrs Gaillard's coll.). Bulb pedunculate; raceme of fl. basal. Sep.
& ext. pet. greenish lined with purple. Labellum large ^{hela} yellow, with a purple lined
center and two prominent yellow ribs on elong. axis. 2 pollinia. Origin. fr. ^{savanna} ~~geten~~ ^{savanna}.

3397. *Oncidium*

Culebra (from Mrs Gaillard coll.) Sep. & pet. yellow, purple spotted. Labellum
broad, sinuate or sub-lobulate on margin, bright yellow inside, white outside. Seems
to be the commonest sp.

3398. *Epidendrum atropurpureum* W.

Semana santa = 3331.

Orchidaceae Around Panama, common. (Mrs Guillard coll.).

3399. *Ficus religiosa* L.

Moraceae Parque de la Catedral, en Panama. Note long tips in leaves. Probably imported from a district with abundant rain.

3400. *Nelsonia lunelloides* (Lam.) O.K.

Acanthaceae Culbra, common in waste places. Fl. pale purple.

3401. *Loxanthia Pittieri* Schltr. n. sp.

Orchidaceae Culbra (Mrs Rousseau's coll., origin. from Bohio). Stems short, leaves quite divergent. Fl. few, rather large, pale yellow. Fr. reddish.

3402. *Epidendrum atropurpureum* W.

Semana Santa

Orchidaceae Culbra (Mrs Rousseau's collection, orig. from savana de Panama). Sep. & pet. brownish purple; labellum pale pink, with purple striae at middle, wings pale pink. Bulb ovate, large, smooth, leaves mostly 3, longer than in 3331.

3403. *Epidendrum inatophyllum* Lindl.

Orchidaceae Culbra (Mrs Rousseau's collection, originally from savana de Panama). Stems straight, 80-100 cm. high. Fl. pink, paler outside.

3404. *Epidendrum Henrici* Schl.

Orchidaceae Culbra (Mrs Rousseau's coll., origin. fr. Costa Rica). Bulb elongate, 3 leaves. Sep. broad lanceolate, apiculate, ciliate, yellow outside, purple-spotted near tip inside. Pet. narrower, apiculate, yellow and purple lined.

3405. *Scaphyglottis unguiculata* Schltr. n. sp.

Orchidaceae Culbra (Mrs Rousseau's coll., origin. from C.R.) - Fl. pale lavender.

3406. *Diacrium*

Orchidaceae Culebra (Mrs Rousseau's coll., origin. from). Fl. white.

3407. *Campylocentrum stenanthum* Schltr.

Orchidaceae Culebra (Mrs Rousseau's coll.) - Fl. white).

3408. *Oncidium celastrum*

Orchidaceae Culebra (Mrs Rousseau's coll.).

3409. *Annona Spraguei* Safford.

April 9th. 1911
Annonaceae Gamboa. A tree 5-6 m. high. Leaves soft, tomentose. Petals thick.
(All materials).

3410. *Piper hispidum gamboanum*

Piperaceae Gamboa, in dry places. A shrub, 2^m high

3411. *Salmea scandens* (L.) D.C.

Compositae Gamboa, in dry hills. Fl. pale yellow. Climbing or trailing on bushes.

3412. *Adenaria floribunda* H. B. K.

Lythraceae Gamboa, in dry hills. A diminute treelet, 1^m high (to 2^m). Fl. white

3413. *Rodriguezia secunda* H. B. K.
= 3395.

Orchidaceae Gamboa, common in bushy area

3414. *Psychotria carthagenensis* Jacq.

Rubiaceae

Yambo, a common shrub ~~at~~ low ground along river. Fl. white.

3415. *Chevetia peruviana* (Pers.) Merr.

April 10th. 1911

Oncen, in grounds. Fl. yellow.

3416. *Camarindus indica* L.

Caesalpiniciaceae

Hospital grounds at Oncen.

3417. *Dylopia frutescens*.

Hospital Ground at Oncen. Characteristic for swamps and
swamp edges.

3418.

Euphorbiaceae

April 11th 1911

Bohio, in meadows.

3419. *Anacardium Rhinocarpus* DC.
Español

Bohio. A tall tree, characteristic of the lower region. Fl.
white

3420

Orchid.

Bohio, on Mango tree. Fl. white.

3421. *Vittaria*

Bohio, on Mango tree. Hanging.

3422. *Polypodium*

Bokio, on Mango tree

3423. *Ipomoea lutea* L.

Anacardiaceae

Bokio, a tall tree. Fl. white.

3424. *Anthurium rigidulum* Schott.

Araceae

Bokio, on Mango tree. Spathe white or purplish white. Petiole very shortly stipitate.

3425. *Polypodium lycopodioides*

Polypodiaceae

Bokio, on Mango tree.

3426. *Paspalum orbiculatum* Poir.

Gramineae

Bokio, in ditch.

3427. *Spiranthes acaulis* Cogn.

Orchidaceae

Around Culebra, cultivated by Mrs Gaillard. April fl.

3428.

Zingiberaceae

Cultivated in Mrs Gaillard's garden at Culebra, brought from Jamaica, and likely to spread. Fl. May, perigon white, washed with pale purple.

3429. *Dracontium*

Araceae

Around Culebra, but cultivated in Mrs Gaillard's garden. Fl.

Sp. lutea determinanda. Polium stipitatum
peroniale

short stemmed (kept in small paper bag.) Leaves ± 70 cm. high, the petiole snake-like, the limb multi-palmato-lobate.

3430. *Psychotria carthaginensis* Jacq.

Rubiaceae

May 6

Around Culebra, a shrub or a small tree. Inf. white. (Bot. ^{S.D.} Guillard).

3431. *Calycolpus glaber* Berg.

Myrtaceae

Around Culebra, a treelet. Fl. large, pale pink. (Bot. ^{S.D.} Guillard)

3432. *Cupania selmanni* Tr. & Pl.

Around Culebra. A small tree. Fr. 6-carpellate, velvety, yellowish red.

3433. *Meibomia supina* (Sw.) Britton

Leguminosae

Around Culebra, in pastures. Fl. pinkish purple.

3434

Graminae

Around Culebra, in pastures, very common.

3435. *Paspalum conjugatum* Berg.

Graminae

Around Culebra, in pastures, rather scarce. Spikes close together, aruate. Culms very slender.

3436. *Paspalum conjugatum* Berg.

Graminae

Around Culebra, in pastures, very common. Spikes broadly divaricate, culms thick.

3437. *Posoqueria panamensis*

Rubiaceae

Around Culebra, remnant of forest or pasture. Fl. white; fr. yellow at maturity. Bushy tree \pm 2.50 high. Photo.

3438 *Croton acutangula* (Mez.) Mez

May
Lauraceae

6, 1911

Around Culebra, in pastures. Remnant of old forest. A tree \pm 7 m. high, with rounded crown. Fl. yellowish green.

3439 *Sporobolus Jacquemontii* Kth.

Graminae

Around Culebra in pastures, rather scarce.

3440 *Leptochloa virgata* Beauv.

Graminae

Around Culebra along roads.

3441 *Panicum hirsutum* Sw.

Graminae

Around Culebra in low bushy places along Railway. Culms \pm 1-1.20 high.

3442 *Chaptalia nutans* (L.) Polak. Compositae

Around Culebra, along roads.

3443 *Eleocharis Brenesii* Schltr.

Orchidaceae

Around Culebra, but cultivated by Mmes Guillard & Rousseau. Fl. sulphur yellow, including basal bract.

3444 *Cyperus Luzulae* Rottb.

Cyperaceae

Around Culebra, wet places in pastures

3445 *Piper dumeticola panamense* C. DC. - Piperaceae
see 3510

May 12-15th 1911

Forests on dry lime rocks around Olajuela, Middle Chagres. A small tree, \pm 6 m. high, 25 cm. diam at base.

3446.

Polypodiaceae

On high trees in dry forests around Alhajucla, alt. 30-70m.

3447 *Basanacantha spinosa* (Jacq.) Schum.

Rubiaceae

Forests of the ^{dry} lime hills around Alhajucla (30-70m). A small tree, dividing from the base in several stems, & ± bent arkwise. Fl. yellowish white. Common & characteristic of the sous-bris.3448 *Macrocnemum glabrescens* (Benth.) Wedd. Rubiaceae
AlazanoForests of the dry lime hills around Alhajucla. Characteristic. See former specimen. Very abundant.3449 *Capparis verrucosa* Jacq.

Capparidaceae

Forests of the dry lime hills around Alhajucla (30-70m). A shrub. (~~may be *thunbergii*~~), with hanging fruits.3450 *Ditaxis macrobotrys* Pax & K. Hoff. n. sp. Euphorbiaceae?Forests of the dry lime ~~fields~~ hills around Alhajucla (30-70m). A gregarious shrub. Fruits greenish, hanging. Sous-bris.

3451

Compositae

Forests of dry lime hills around Alhajucla (30-70m). Shrub.

3452 *Glytostoma isthmicum* Pittier

Bignoniaceae

Around Juan Mina. Common also in all the forests of the Chagres, up to El Vigia. A vine. Fl. pink.

3453 *Miconia loucheophylla*
Naud

Melastomat.

Around Juan Mina, on the Chagres R. above Cruces. A small tree on edge of forest. Fl. white.

3454. *Psychotria horizontalis* Sw.

Rubiaceae

May 11-14

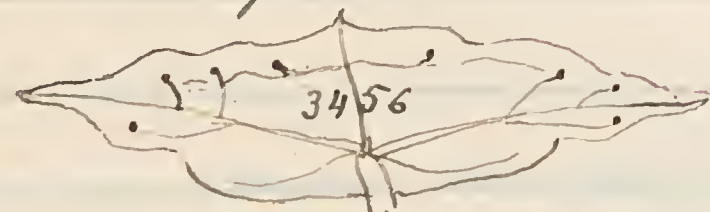
Forests of the dry lime hills around Alhajiela. A low shrub. Fl. white. Common in sos-tos.

3455. *Crataeva Tapia* L.

Capparidaceae

(mell)

Forests of the dry lime hills around Alhajiela. Rare. A tree \pm 15m. high. Trunk erect. 10-12 m. high. 35 cm. diam. Bark grayish-black, \pm verrucose. Wood yellowish-white, with a faint mustard smell. Fl. pinkish-rose.



3456. *Passiflora coriacea* Jacq.

Passifloraceae

Forests of the dry lime hills around Alhajiela, trailing on bushes. Leaves with glands on upper margin (+ 1 midrib), petiole 2-glandulate. Fl. small, yellowish white.

3457 *Achras calicicola* Pittier Sapotaceae
nispero

Forests of the dry lime hills around Alhajiela. Rather common. See note.

3458

Melastomaceae

Forests of dry lime hills around Alhajiela. Shrub. Fl. spicate, white.

3459. *Gustavia superba* Meis -
Membrillo.

Lecythidaceae

Forest of dry lime hills around Alhajiela. A small tree / up to 8-10m. Characteristic and very abundant.

3460. *Stenorrhynchus aphyllus* Lindl.

Orchidaceae

Forest Savana de Alhajiela, 60-70m. above sea level.

3461 *Stenorrhynchium*

Savana de Alhajiela, 60-70m. above sea-level. Fl. golden yellow.

May 11-14, 1911.

3462. *Axonopus compressus* Beauv.

Gramineae

Satana de Alhajiela. apparently very common.

3463. *Chaetochloa (microcarpa)*

Graminae

Satana de Alhajiela. Rare.

3464

Tridaceae

Satana de Alhajiela. Fl. white.

3465. *Cassia biflora* L.

Leguminosae

Satana de Alhajiela. Fl. golden yellow. On edge of forest.

3466. *Souroubea pilifera* (Tr. & Pl.) Witton.

Marcgraviaceae

Satana de Alhajiela on the edge of the forests. A vine, with green flowers.

3467. *Peperomia*

Piperaceae

^{shady} Rocks along Chagres R. at Alhajiela.

3468. *Celtis trinervia* Lamarck

Ulmaceae

On steep slope along R. Chagres at Alhajiela. A small tree.

3469

Rubiaceae

Forests on dry lime hills Alhajiela. A low bush, with orange-pink fls.

3470. *Olyra semiovata*
Carrizillo

Gramineae

Forests on dry lime hills around Alhajiela. Common and forming extensive thickets.

3471

Compositae

Forests on dry lime hills around Alhajiela. In clear places along trail.

3472

Forests on dry lime hills around Alhajiela. A shrub with white fl.

3473. *Basanacantha lasiantha* Standley sp. nov. Rutiaceae

Forests on dry lime hills around Alhajiela. A small tree. Fl. large, light yellow.

3474. *Cavanillesia platanifolia* R. & P.
Guipo

Bombacaceae

Forests on dry lime hills around Alhajiela. A large tree. See note. Also at Pedro Miguel, on hills near Mamei, etc.

3475 *Erythroxylon mexicanum* Erythroxylaceae?
HBK.

Forests on dry lime hills around Alhajiela. A small tree. Fl. greenish.

3476. *Helicteres guazumifolia* H. B. K.
Guazumillo

Sterculiaceae

Forests on dry lime hills around Alhajiela. A bushy shrub.

3477. *Vitex floridula* Duckers. & Walpers.
Guajado

Verbenaceae
Hall

Forests on dry lime hills around Alhajiela. A large tree. Leaves first 3-foliate, then simple. Fl. tubular, purple, st. 4. Fruit a bluish black berry, wid. \pm 14 mm. long, 10 mm diam.

11-14 May 1911.

3478. *Paspalum peniculatum* L.

Graminae

Savana de Alhajucla.

3479

Commelinaceae

Savana de Alhajucla. Fl. azure-blue, single.

3480. *Dichromena radicans* Schl. & Cham.

Cyperaceae

Savana de Alhajucla.

3481. *Antirrhoea trichenta* Hemsl.
Candelero

~~Polypodiaceae?~~

Forests on dry lime hills around Alhajucla. A medium sized tree. Fl. white.

3482

Bromeliaceae

Forests on dry lime hills around Alhajucla. Gregarious on edge of savana.

3483

Fern

Savana de Alhajucla.

3484. *Bletia verecunda* R. Br.

Orchidae.

Savana de Alhajucla. Fl. pink.

3485. *Cissus*

Vitaceae

Savana de Alhajucla, climbing on bushes.

3486. *Spondias purpurea* L.

Ciruelo de

Anacardiaceae

Sabana de Alhajiela, on edge of forest. Fl. greenish. Fruit

± 2 cm. long, 1.5 cm. diam., red.

3487. *Smilax*

Forests on dry lime hills around Alhajiela. Climbing on high trees.

Fl. greenish.

3488. *Helicostyles latifolia* Pittier

Berba

Moraceae

Small

Forests on dry lime hills around Alhajiela.

3489. *Gurania seemanniana* Cogn. Cucurbitaceae

Bejuco picador

Forests on dry lime hills around Alhajiela. Climbing on high trees. Fl. fire red.

3490

Gemeraeae

Forests on dry lime hills around Alhajiela. In low places. Corolla orange yellow.

3491. *Aspasia epidendroides* Lindl.

Orchideae

Forests on dry lime hills around Alhajiela.

3492

Orchideae

Forests on dry lime hills around Alhajiela

3493

Rubiaceae

Forests on dry lime hills around Alhajiela. A small tree. Fl. white.

3494. *Baccharis*

Compositae

May 11-14, 1911.

Sabana de Alhajuela, on edge of forest.

3495. *Brassia*

Orchidaceae

Forests on dry lime hills around Alhajuela. Epiphytic.

3496. *Epidendrum fragrans* Sw.

Orchidaceae

Forests on dry lime hills around Alhajuela. Epiphytic.

3497

Forests on dry lime hills around Alhajuela, in light places.
Fls. white.

3498 *Laportea*

Euphorbiaceae

Forests on dry lime hills around Alhajuela. Young leaves.

3499

Forests on dry lime hills around Alhajuela. A small, bushy tree, several stems on one trunk. ^{Wood} turning pink in the break.

3500

Felices

Forests on dry lime hills around Alhajuela.

3501. *Cakile* Guayaquil Hemsl.
Guayaquil

Brignoniaceae
Hemsl

Forests on dry lime hills around Alhajuela.

May 11-14.

3502-

Anonaceae?

Forests along R. Chagres, above Alhajuela. A small tree in shady places. Fruits smooth, purplish outside.

3503 *Tapirira chagrensis* Pitt. sp. nov.

^{II} Anacardiaceae

Forests along R. Chagres, above Alhajuela. A tree \pm 20 m. high. Trunk 8 m. high, 35 cm. diam. Wood hard.

3504

Araceae

Forests along R. Chagres, above Alhajuela. Epiphytic. Spathe greenish white. Spadix pale purplish gray.

3505 *Virola Warburgii* Pitt. sp. nov.

Myristicaceae

Forests along R. Chagres above Alhajuela. Trunk straight, 25-30 cm. thick, ramification radiate, crown pyramidal. Fl. rich brown.

3506

Filices

Forests along R. Chagres above Alhajuela.

3507 *Pereiskia*

Forests along R. Chagres above Alhajuela, in shady places.

3508

Campanulaceae

Forests along R. Chagres above Alhajuela. Fl. pinkish red. Fr. a capsule.

3509 *Eupenia latifolia* Kunth.

Flacourtiaceae

Forests on dry, lime hills around Alhajuela; a middle sized tree.

3510. *Piper aduncum* L.

Piperaceae

May 11-14, 1911.

Forest on dry, lime hills around Alhajiela. The note with n° 3445 should come here

3511. *Dalbergia darriensis* Pittier n. sp. Leguminosae
Cocobola

Along Rio Chagres, on edge of forest, left bank, above Alhajiela.

3512. *Alseis blackiana* Hemsl.

Rubiaceae

Forests on dry, lime hills around Alhajiela

3513. *Croton hillbergianus* Muell. Euphorbiaceae
Baquero

Forests on dry lime hills around Alhajiela. A small tree. Fl. large for the genus, white.

3514
Conejo

Myrtaceae

Forests on dry lime hills around Alhajiela. A small tree. Fl. white, very numerous.

3515. *Zanthoxylum setulosum* P. Wilson sp. n. Rutaceae
Alcabu, acabu

Rocky, exposed slopes along Chagres R. above Alhajiela. A tree with thorny trunk.

3516.

Scacarea confusa (HBK.) Shrad.
Myrsinaceae

Rocky, exposed slopes along Chagres R. above Alhajiela. Shrub; fl. pinkish white

3517. *Alibertia edulis* A. Rich.

Rubiaceae

Rocky, exposed slopes along Chagres R., above Alhajiela. Shrub; fl. white.

3518. *Dioclea sarmentosa* Sw.

Rubiaceae

May 11-14, 1911

Rocky slopes along Chagres R. above Alhajuela. Fl. white.

3519 *Hiraea obovata* Udzu.

Malpigiaceae

Rocky slopes along Chagres R. above Alhajuela. ~~Fl. white with hard~~
~~wood~~ ^{very} yellow. A vine.

3520. *Swartzia panamensis* Benth.
Cutaro

Leguminosae

Rocky slopes along Chagres R. above Alhajuela. A middle sized tree,
with smooth bark and hard wood. Fl. ^{or many} pale yellow.

3521. *Lindenia nivalis* Benth.
Lirio de ~~peña~~ (Lirio de peña)

Rubiaceae

Rocky slopes along Chagres R. above Alhajuela, always near to
the river surface. Corolla tube pink, petals white

3522. *Prolicium sessiliflorum* (Rose)

Burseraceae

Rocky slopes along Chagres R. above Alhajuela. A small tree.

3523.

Filix

May 20-23, 1911.

Caboga Island, in shady places on lower slopes.

3524. *Guazuma ulmifolia* Lam.

Sterculiaceae

Caboga Island, along beach.

3525 *Eugenia sericiflora* Benth. Myrtaceae

Caboga Island, common on the northern side, from the beach to summit

May 20-23, 1911

3526. *Psychotria horizontalis* Sw.

Rubiaceae

Tobago Island, in bushes. A shrub with white flowers, seen almost to the summit

3527. *Psychotria horizontalis* Sw.

Rubiaceae

Tobago Island, common in shady bushes. Fl. white

3528

Rubiaceae

Tobago Island, bushes of the lower belt. Fl. white.

3529. *Piper taboganum* C. DC.

Piperaceae

Tobago Island, in shady bushes in the lower slopes.

3530

Urticaceae

Tobago Island, a shrub in bushes along the beach.

3531

Rubiaceae

Tobago Island, a shrub or small tree in bushes around sanitarium. Fl. white.

3532 a. *Psychotria horizontalis* Sw.

Rubiaceae

Tobago Island, a small tree (or a shrub) along the beach.

3532. *Eugenia aspalensis* Steud.

3533

Eschschia

Tobago Island, a weed in waste places and cultures. Fl. white.

3534. *Boerhaavia viscosa* Lag. & Rodr.

Nyctagynaceae

May 20-23, 1911

Tobago Island, a weed in field and waste places. Fl. purple.

3535. *Capparis odoratissima* Jacq.

Capparidaceae

Mangle salado

Tobago Island, on rocky beaches, often below high tide level. A small tree. Fl. white or purple.

3536. *Tournefortia peruviana* Pir Boraginaceae

Tobago Island, in bushes along the beach, a shrub. Fl. greenish yellow

3537. *Bunchosia pilosa* HBK. Malpighiaceae

Tobago Island, a vine? or shrub, in bushes along foot of hills. Fl. yellow

3538. *Trema*

Moraceae

Jordan

Tobago Island, a small tree along the beach.

3539. *Metastelma pedunculare* DC. ^{Clusiaceae}

Tobago Island, trailing on bushes. Fl. white

3540. *Cassia nitida* (L.) Jacq.

Tobago Island, a small tree

3541. *Cestrum*

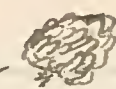
Solanaceae

Tobago Island, a subclimbing shrub. Fl. greenish white

3542. Annona
Anon

Annonaceae

May 20-23, 1911

Caboga Island, a small tree in bushes along the beach. Fl. greenish yellow. Fruits squamose , edible.

3543. Strychnos panamensis
Strychnos

Rubiaceae

Caboga Island, a vine. Fl. white or yellowish white.

3544. Trubia panamensis Staudl.

Caboga Island, a small tree. Fr. green at maturity

3545

Apoynaceae

Caboga Island, a milky vine. Lobes of corolla purplish pink inside, white outside. Climbing on trees not far from beach.

3546. Posoqueria latifolia (Lam.) R. & S.

Rubiaceae

Caboga Island, a small tree, common in 2^d growth forest. Fl. white.

3547. Alcalypha

Euphorbiaceae

Caboga Island, in bushes around sanitarium. A small tree.

3548. Dorstenia

Moraceae

Caboga Island, in shady places along the coast.

3549. Sicydium tannifolium (HBK.)
Cogn.

Caboga Island, a vine, trailing on bushes. Fl. greenish

May 20-23, 1911

3550. *Piper tuberculatum* Jacq.

Piperaceae

Tobago Island, in bushes of the banyan tree. A small tree.

3551.

Compositae

Tobago Island,

Cultivated fields, in sunny places.

Tobago Island,

3552

Compositae

Bushes in old clearings, on sunny slopes.

Tobago Island,

3553. *Piper marginatum* Jacq.

Piperaceae

Sunny clearings on slopes. Oleriferous.

Tobago Island,

3554. *Sorbus*

Vitaceae

Sunny clearings on slopes. Margin of leaves purple. Fl. red. Leaves simple

Tobago Island,

3555

Euphorbiaceae

Cultivated field on sunny slopes.

Tobago Island,

3556. *Justicia carthagenensis* L.

Acanthaceae

In sunny exposures on edge of cultivated field. $\pm 1^m$ high. Fl. purple.

Tobago Island,

3557

Filices

Tobago Island, climbing on bushes, in sunny exposures.

May 20-23, 1911.

3558 *Melothia guadalupensis* Cucurbitaceae Tobago Island, on bushes on many hills. Fl. small, yellow.
(Spreng.) Cogn.

3559. *Euphorbia* Euphorbiaceae Tobago Island, in cultivated fields.

3560 *Priva lappulacea* (L.) Pers. Scrophulariaceae Tobago Island, in cultivated fields. Fl. pale purple. Fr. sticky.

3561 Violariaceae Tobago Island, a weed in cultivated fields. Fl. white with purple lines, or wholly purple.

3562. *Euphorbia* Euphorbiaceae Tobago Island, a weed in cultivated fields. Fl. greenish

3563. *Euphorbia* Euphorbiaceae Tobago Island, a weed in cultivated fields. Fl. white

3564. *Leptochloa filiformis* Beauv. Graminae Tobago Island, a weed in cultivated fields.

3565. *Axonopus* Graminae Tobago Island, in savanas.

May 20-23, 1911

3566. *Rynchospora globosa* (H.B.K.) R. & S. Cyperaceae Tobago Island, in savannas. Common. Fl. yellowish white
- 3567 *Miconia albicans* (Sw.) Triana Melastomataceae Tobago Island, a low shrub on edge of savannas.
3568. Tridaceae Tobago Island, on rocks and denuded places in savannas. Fl. yellow.
3569. *Pamplora* Passifloraceae Tobago Island, in bushes on edge of savannas. Fl. white with purple lines
3570. *Byrsomima crassifolia* (L.) DC. Malpighiaceae Tobago Island, a small tree, in bushes on edge of savannas. Fl. yellow.
3571. *Tephrosia nitens* - *Cracca nitens* (Benth.) O.K. Leguminosae Tobago Island, in savannas. Fl. pink.
3572. *Clitoria guyanensis* (Pult.) Benth. Leguminosae Tobago Island, in savannas. Fl. very large, pale purple
- 3573 *Eugenia sericiflora* Benth. Myrtaceae Tobago Island, a shrub on edge of savannas. Fr. ovoid-elongate.

3574. *Cissus salutaris* HBK.

Vitaceae

Caboga Island, in bushes on edge of savanas. Leaves 3-foliate, with ample margin. Fl. red.

3575. *Metayba glaberrima* Radlk.

Lapindaceae

Caboga Island. A small tree, growing from shore to summit. Fr. reddish

3576. *Rynchospora cephalotes* (L.) Vahl.

Cyperaceae

Caboga Island, in shady forests of northern slope.

3577. *Clidemia rubra* (Aubl.) Mart. Melastomataceae

Caboga Island, in savanas. Fl. pinkish.

3578. *Declieuxia mexicana* D.C.

Rubiaceae

Caboga Island, in savanas. Fl. white.

3579. *Stigmaphyllon ellipticum* (HBK.) Juss

Caboga Island.

3580. *Sichromena ciliata* Vahl.

Cyperaceae

Caboga Island, in savanas.

3581. *Psidium serstedeanum*
Berg

Myrtaceae

Caboga Island, in savanas. A low shrub. Fl. white.

May 20-23, 1911

3582. *Arizopas*

Graminae

Tobago Island, in savanas near the summit.

3583. *Hyptis lantanifolia* Poit. Labiatae

Tobago Island, in savanas. Fl. lilac.

3584. *Paspalum pectinatum*

Graminae

Tobago Island, in savanas

3585. *Adiantum*

Filices

Tobago Island, in shady forest of southern slope, near to ridge.

3586. *Mabea*

Euphorbiaceae

Tobago Island, ^{upper} edge of forest. A small tree. Fl. pale green.

3587. *Xylopia*

Anonaceae

Tobago Island, on edge of upper forest.

3588. *Scleria pterota* Presl.

Cyperaceae

Tobago Island, in savanas.

3589

Compositae

Tobago Island, in savanas.

May 20-23, 1911.

3590.

Filices

Botoga Island, on edge of savana.

3591

Compositae

Botoga Island, in bushes on edge of savana. Fl. pale lilac.

3592. *Guettarda odorata* (Jacq.) Lam.

Rubiaceae

Botoga Island, in bushes. A small tree. Fl. yellowish green.

3593. *Vismia*

Clusiaceae

Botoga Island, a small tree, on edge of savana. Fl. golden, or brown, yellow.

3594

Scrophulariaceae

Botoga Island, in savanas. Fl. purple.

3595. *Lida linifolia* Juss.

Malvaceae

Botoga Island, in savanas. Fl. white.

3596

Leguminosae

Botoga Island, in savanas. A vine. Fl. large, purple.

3597. *Palicourea parviflora* Benth.

Rubiaceae

Botoga Island, in bushes near summit. A shrub. Fl. orange-yellow.

3598 *Miconia lacera* (Boupl.)
Naud.

Melastomataceae Tobago Island, in bushes on northern slope. Corolla pink.

3599 *Miconia ibaguensis*
(HB.) Travia

Melastomataceae Tobago Island, in bushes on northern slope, a shrub. Fr. bluish, edible

3600 *Miconia rubiginosa* DC.

Melastomataceae Tobago Island, in bushes on northern slope. A shrub.

3601 *Clidemia neglecta* Don

Melastomataceae Tobago Island, in bushes on northern slope. A shrub. Fl. white

3602

Tobago Island, on edge of forest. A small tree.

3603 *Lasiacis compacta* Hitchc.

Graminae Tobago Island, in cultivated places.

3604 *Paspalum virgatum* L.

Graminae Tobago Island, in artificial pastures.

3605

Filices Tobago Island, in old clearings.

May 20-23 1911.

3606. *Basanacantha spinosa* (Jacq.) Schum.
Jasmino del monte, jasmínillo

Rubiaceae

Boja Island, in bushes. A small tree. Fl. white, very odorous

3607. *Passiflora lunata* Willd.

Passifloraceae

Boja Island, in bushes. Fl. white.

3608. *Echites trifida* Jacq.

Apocynaceae

Boja Island, climbing in bushes. ^{Fl.} Greenish white.

3609

Convolvulaceae

Boja Island, climbing in bushes. Fl. pinkish purple.

3610

Amarantaceae

Boja Island, in waste places.

3611. *Phryganocydia corymbosa* Bur.

Bignoniaceae

Boja Island, climbing in bushes. Fl. pink, large.

3612. *Wedelia trilobata* (L.) ~~Wt.~~ ^{Wt.} Compositae

Boja Island, on sandy places, along shore.

3613. *Altemserda cathartica* L.

Apocynaceae

Boja Island, in cool places. Fl. large, golden yellow.

3614. *Avicennia nitida* Jacq.
Mangle.

Verbenaceae

May 20-23, 1911

Catoga Island, along beach. A small tree. Fl. whitish.

3615. *Scleria bracteata* Cav.

Cyperaceae

Catoga Island, in tussocks.

3616. *Scleria reflexa* H.B.K.

Cyperaceae

Catoga Island, in tussocks.

3617. *Valerianoides jamaicensis* Verbenaceae
(L.) Kunze

Catoga Island, in shady, cool places. Fl. large, purple.

3618. *Piper trinerve* C. DC.

Piperaceae

Catoga Island, in tussocks.

3619

Polypodiaceae

Catoga Island, on *Attalea* trunk.

3620. *Aphelandra pectinata* Willd.

Acanthaceae

Catoga Island, in shady places. Fl. pink.

3621. *Meibomia sepcina* (Sw.) Britton

Leguminosae

Catoga Island, in pastures. Fl. pink.

3622. *Paspalum plicatulum* Mchx.

Graminae

Taboga Island, in artificial meadows.

3623. *Lida acuta* L. fil.

Malvaceae

Taboga Island, in waste places. Fl. white.

3624

Loganiaceae

Taboga Island, in shady places.

3625

Taboga Island, fungus

3625

Tab

3626. *Panicum fasciculatum* Sw.

Graminae

Around Culebra - June 22^d 1911.

3627. *Trophis americana* L.

Moraceae

Around Culebra - A small tree, only ♀ fl. - June 25th 1911.

3628. *Eupania sylvestica* Lemmon

Sapindaceae

Around Culebra - A tree - May 20th 1911

□ *C. Seemannii* Tr. & Pl.

3629. *Calasetum maculatum* Kunth.

Orchidaceae

Exact locality unknown, but from somewhere in C. Z.
(Mrs Rousseau's coll.).

Costa Rica

1911.

3630. *Passiflora coriacea* Juss.

Passifloraceae

May 26, 1911.

Along the beach between Port Limón and Moín. Compact form of leaf and ^{marginal} location of glands with the plant from the zone. Fl. greenish white.

3631

Bignoniaceae

Along Northern R.R. and beach, between Puñá & Portete, near Limón. A vine, high climber. Fl. white.

3632

Asclepiadaceae

May 27th, 1911

Bananita R., near foot of hills. Climbing and trailing. Fl. green, with white margins. Scales (?) brownish.

3633

Lauraceae

Bananita R., a small tree with yellow, odorous flowers.

3634

Gramineae

Bananita R., in plantations.

3635

Apocynaceae

Bananita R., in shady places. Fl. white.

3636

Acanthaceae

Bananita R. in shady places. Fl. whitish purple.

3637

Solanaceae

Bananita R. in shady places. Fl. golden yellow. Fr. ovate.

3638. *Selaginella*

Selaginellaceae

May 27th 1911

Near bridge on Banana R. at Bearesem W., on rocks.

3639. *Justicia ornata* L.

Alcanthaceae

Near bridge on Banana R. at Bearesem W. on rocks. Fl. purple

3640.

Musci

Near bridge on Banana R. at Bearesem W., on rocks.

3641

Borraginaceae

On "littoral cordon," near Port Limon. A bushy shrub, \pm 2 m. high.
Fl. white.

3642. *Cyrtocarpus caudatus* L.

Verbenaceae

On "littoral cordon," near Port Limon. A bushy shrub or a treelet.
2-2.5 high. Fl. white.

3643. *Piper*

Piperaceae

On "littoral cordon," near Port Limon. A small tree.

3644.

Sauraceae

June 2^d 1911.

La Balsa de Rio Grande, along river. A small, bushy tree.

3645. *Sipterodendron costaricense* Radlk.

Sapindaceae

n.v. Loro

La Balsa de Rio Grande; a large tree, 15-20 m. high, branched
from near the base.

April 2^d, 1911.

3646.

Solanaceae

La Balsa de Rio Grande, an erect herb; stems single, fl. white, hanging.

3647. *Pithecolobium cognatum* (Schlecht.) Benth. Mimosaceae.

La Balsa de Rio Grande. A tree along river.

3648

Maranthaceae

La Balsa de R. Grande. ^{in cool places.} ~~Epiphytic~~. Fl. white

3649.

Solanaceae

La Balsa de R. Grande. An epiphytic vine. Fl. hanging, in clusters

3650. *Dracontium*

Araceae

La Balsa de R. Grande. Common along river in rich, shady places.

3651. *Paullinia Cururu* L. emend.

Leguminosae

La Balsa de R. Grande. A vine. Fl. yellowish white.

3652

Celastraceae

La Balsa de R. Grande. A small tree.

3653

Passifloraceae

La Balsa de R. Grande. A vine. Folial glands marginal. Stipules orange-yellow. Bracts persistent, completely enclosing purple flowers.

3654. *Lonchocarpus*

Leguminosae

June 2^d 1911

La Balsa de Rio Grande. A tree.

3655. *Phyllanthus*

Euphorbiaceae

June 4-5, 1911.

La Gloria de Juan Viñas. A small tree. Trunk \pm 25 cm. diam.

3656. *Epidendrum cochleatum* L.

Orchidaceae

La Gloria de Juan Viñas. Epiphytic. Calyx and outer petals pale yellow.

Labellum deep purple with yellow base, and yellow sculptures inside. Fr. winged.

3657. *Peperomia*

Piperaceae

La Gloria de Juan Viñas. Epiphytic

3658

Araceae

La Gloria de Juan Viñas. Epiphytic

3659. *Piper*

Piperaceae

La Gloria de Juan Viñas. A small tree, with thin, hanging branches.

3660

Monimiaceae

La Gloria de Juan Viñas. A small, shrubby tree, with yellow flowers.

3661. *Selaginella*.

La Gloria de Juan Viñas. In cool places along brook.

3662

Filices

June 4-5

La Gloria de Juan Viñas. Epiphytic. Fronds pinkish green.

3663

Euphorbiaceae

La Gloria de Juan Viñas. A small tree along brook. Fl. yellowish white inside.

3664. Dioscorea

Dioscoreaceae

La Gloria de Juan Viñas. A vine with greenish flowers.

3665. Ficus crassiuscula Warb.

Moraceae

La Gloria de Juan Viñas. A large tree.

3666.

Marantaceae

La Gloria de Juan Viñas, along brook. ^{Stem}Stems 2-2.50 high. Floral racemes, including peduncles 30-40 cm.

3667. Rhamnus capreaefolia Schl.
Duraznillo

Rhamnaceae

June 7th 1911.

Hacienda Polini, Carpintera, 1400-1500 m. A small tree.

3668. Sapium

Hacienda Polini, Carpintera, 1400 m. A tree with flat, rounded crown and low trunk.

June 9th 1911

3669. Sapium

Hacienda Trumon, San Francisco de Guadalupe, 1200 m. A tree, 20-25 m. high, with elongated crown. Narrow lanceolate leaves.

3670. *Lapium*

3671. *Passiflora lunata* L.
Pococa

3672. *Anona*

3673. *Ficus costaricana* (Liebm.) Mig.

3674. *Bursera*

3675. *Ficus costaricana* (Liebm.) Mig.

3676. *Solanum*

3677. *Croton albidiflora* C. D. C.

Passifloraceae

Moraceae

Moraceae

Meliaceae

June 9th 1911.

Hacienda Tumnon. A large tree. Leaves rounded.

Hedges along road at S. Francisco de Guadalupe. Fl. white.

Hedges around S. Jose. A small tree. Sepals yellowish green inside brownish outside.

Around San Jose. A large tree.

Around S. Jose, in hedges. A small tree.

Around S. Jose, in pastures. A large tree.

El Brasil, gorges of the Virilla R. 800^m. June 14th 1911. Fl. yellowish white, large. Plant a patula.

Ojos de Agua, in meadows. Fl. white.

3678. *Cedrela*

Ojos de Agua, a tree. Fl. white.

3679. *Lopezia*

San Cristobal. Fl. pink. W.

3680. *Lucuma*

Sapotaceae

Cultivated around S. José - G. Mora U.

3681. *Dipterodendron costaricense* Radlk. sp. n. *Sapindaceae*
N.v. Loroito

Cerro caliente del Pacifico.

3682. *Abutilon giganteum* (Jacq.) Presl.

Malvaceae

Quinto de San José, 1.50-2m. high - T.

3683. *Phyllonoma tenuidens* Pittier

Saxifragaceae

San Cristobal, 1700m. W.

3684

Entre S. Cristobal & Comalillo. W.

3685

Arrayan

San Cristobal, a large tree. W.

3686

Annonaceae

Bristolal, a pretty high forest tree W.

3687

Bristolal W.

3688. *Peperomia*

Bristolal W.

3689. *Peperomia palmana* C. DC.

Piperaceae

Bristolal W.

3690. *Sesuvium oligoneurum* Schumann & Pitt. Euphorbiaceae

Guadalupe, near Guadalupe - O.T.

3691.

Bristolal & la Palma, small, epiphytic tree.

3692. *Tillandsia costaricensis* Mez & Wreckle - Bromeliaceae

Peñonino de la Palma - W.

3693. *Bryhina lanceolata* Standley. Leguminosae

Bristolal - Small ~~shrub~~ tree, with small leaves and greenish
alot (fl. eucalyptus leaves de wit).

3

3

36

36

36

36

36

36

4284



